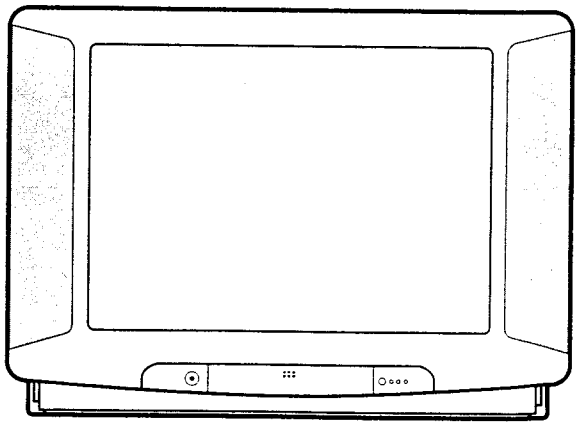
GoldStar

COLOUR TV SERVICE MANUAL

CAUTION

BEFORE SERVICING THE CHASSIS, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.



CHASSIS: PC-33B

MODEL: CB-28C20X

GoldStar

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SAFETY PRECAUTIONS

WARNING : BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTIONS", SAFETY INSTRUCTIONS" AND "PRODUCT SAFETY NOTICE" DESCRIBED BELOW.

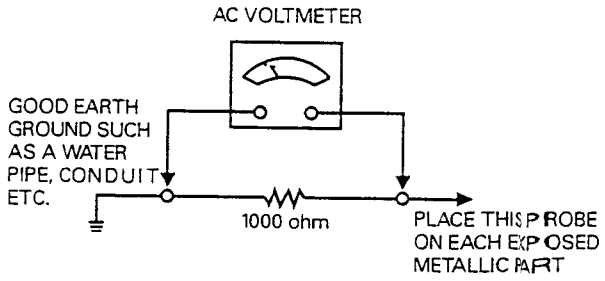
X-RAY RADIATION PRECAUTIONS

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is 29KV at Zero beam current (minimum brightness) under specified power source. The high voltage must not, under any circumstances, exceed 30KV. Each time a receiver requires servicing, the high voltage should be checked. It is recommended the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some parts in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY INSTRUCTIONS

1. Potential as high as 25,000-30,000 volts is present when this receiver is operating. Operation of the receiver outside the cabinet or with the back cover removed involves a shock hazard from the receiver.
   (1) Servicing should not be attempted by anyone who don't know the precautions necessary through and through when working on high-voltage equipment.
   (2) Always discharge the picture tube anode to the CHASSIS GROUND to reduce the shock hazard before removing the anode cap.
   (3) Perfectly discharge the high potential of the picture tube before handling.
   (WARNING: Risk of implosion. Handle with care.)
2. If any fuse in this TV receiver is blown, replace it with the FUSE specified in the chassis parts list only.
3. When replacing parts or circuit boards, wind the lead wires around terminals before soldering.
4. When replacing a high wattage resistor (oxide metal film resistor) in circuit board, keep the resistor 10 mm away from circuit board.
5. Keep wires away from high voltage or high temperature components.
6. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screwheads, metal overlays, control shafts, etc., to be sure the set is safe to operate without danger of electrical shock. Since this TV has AVC (Automatic Voltage Control) circuit, it may be operated nonadjustably within the voltage area indicated in the label attached at back cover. (Do not use a line isolation transformer during this check).
   Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner.
   Connect a 1000 ohm resistor between a known good earth ground, (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1000 ohm resistor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 1 volt RMS. This corresponds to 1 mA. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

AC Leakage Test



PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed without being noticed by a visual inspection and the X-RAY RADIATION protection afforded by some of them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified by ⚠ marks on the schematic diagram and the replacement parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create X-RAY RADIATION.

SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.
NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heatsink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some fieldeffect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the bruching together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500° F to 600° F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wirebristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500° F to 600° F)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500° F to 600° F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.

d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendiculaly to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.
CAUTION: Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice.

- **Video input system** : PAL - B/G

- **Intermediate Frequency** (unit : MHZ)

Carrier	PAL-B/G
Vision (Vc)	38.9
Sound (Sc)	33.4
Color (Cc)	34.47

- **Tuning range**

Band	For TV	For CATV
VHF-Low	Ch 2 - 4	S1' - S3', S1
VHF-High	Ch 5 - 12	S2 - S10, S11 - S20
Hyper		S21 - S41
UHF	Ch 21 - 69	

- **Tuning system** : FS (Frequency Synthesizer), 60 Program Memory

- **External conection** : S-VHS in/Phono Jack AV in
  Jack for external speaker(P654, P653)
  Scart 1 (EURO-Socket, SK101)
  Scart 2 (EURO-Socket, SK102)

- **Power requirements** : 230Vac ± 10%, 50 HZ

- **Power consumption** : 160W max .

- **Sound output** : 12W max x 2 way
  Dual / Stereo (2 carrier)

- **Voice coil impedance** : 8 ohm

- **Antenna input impedance** : VHF/UHF 75ohm, Unbalanced

- **OSD (On Screen Display)** : Menu method

- **Local button** : Menu/OK
  Volume up(+), down(-)
  Program up(+), down(-)

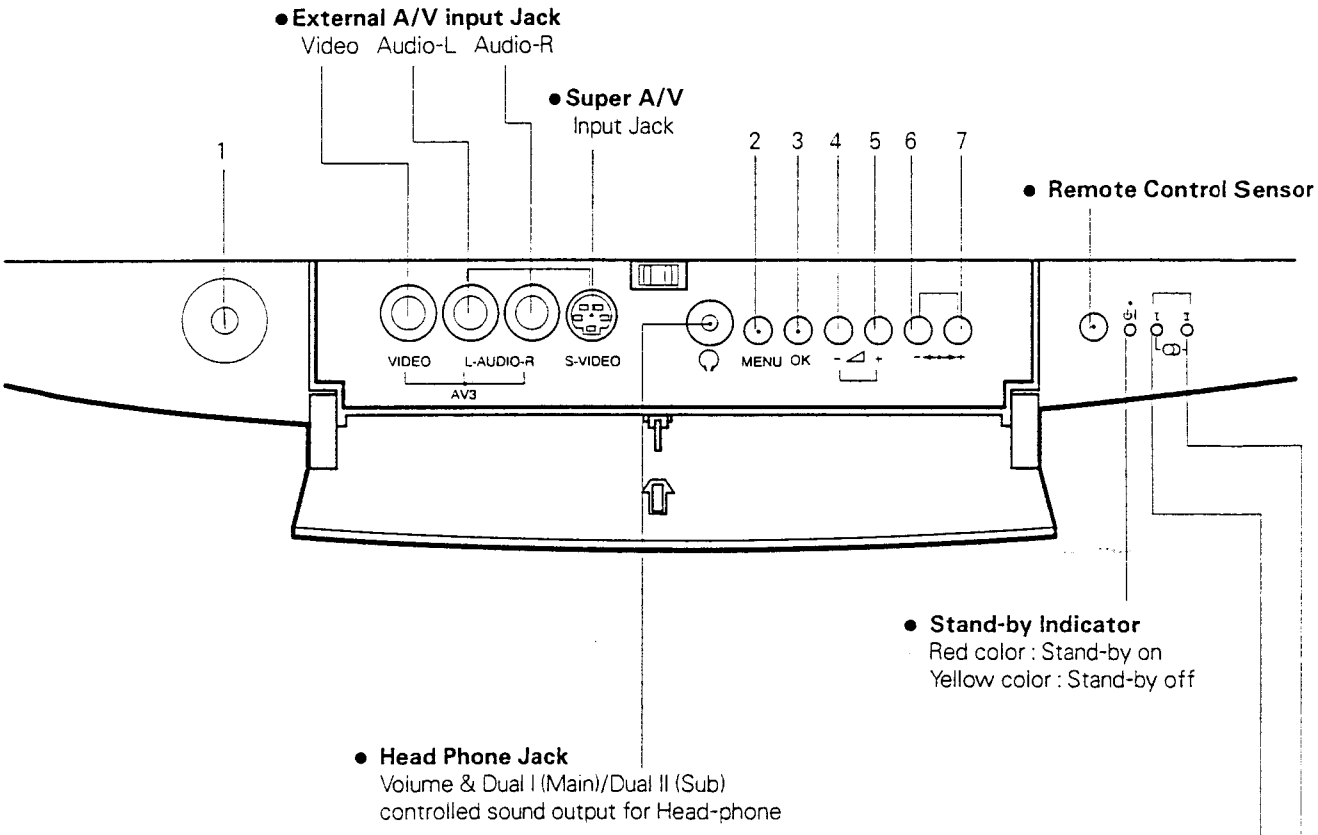
- **Function** : Auto Program
  Manual Program
  Auto Sleep
  Quick View
  Teletext (TOP/FLOF/LIST)

Child Lock;
In case of choosing Lock On, you can power on/off only with remote controller. To cancel of this mode, select lock off with menu button on remote controller only.

	Scart 1	Scart 2	Specifications
Video in/out	o	o	1Vp-p ± 3dB, 75ohm
Audio in (2 way)	o	o	0.5Vrms ± 3dB, over 10Kohm
Audio out (2 way)	o	o	0.5Vrms ± 3dB, below 1Kohm
R.G.B in	o	x	0.7Vp-p ± 3dB, 75ohm

CONTROL DESCRIPTIONS

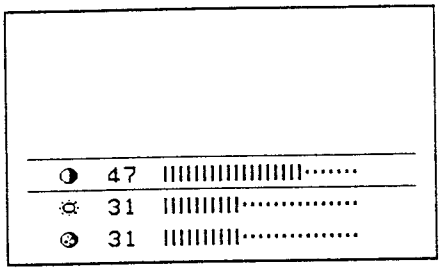
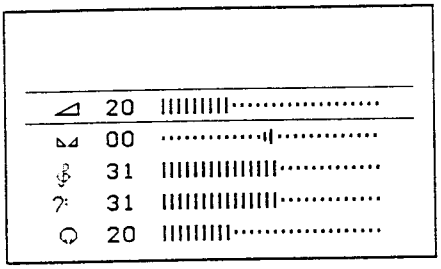
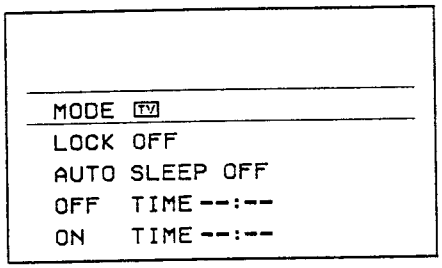
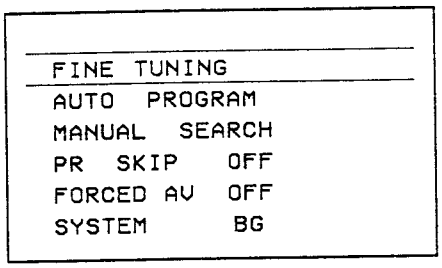
● **Local control**



Mode	I	II
Mono	off	off
Stereo	on	on
Dual I	on	off
Dual II	off	on

NO	Button's name	Description
1	**Power**	To turn the TV power on
2	**Menu**	To show control menu Refer to menu reference
3	**OK**	To keep every selected control status into memory
4	**Volume Down**	To decrease (-) sound volume
5	**Volume Up**	To increase (+) sound volume
6	**Program Down**	To change program No downwards
7	**Program Up**	To change program No upwards

• Menu Reference

TYPE	OSD (On Screen Display)	Reference
MENU 1		Contrast Brightness Colour
MENU 2		Volume for speaker Balance Treble Bass Volume for head-phone
MENU 3		• TV or AV • •
MENU 4		• • • Receiving System OSD BG → DK → I → BH →

- Use Program Down / Up button to select each one function in every MENUs.
- To change analog level in MENU 1, MENU 2 or to change status of each marked (•) in Reference column, you can control with Volume Down / Up button.

NOTE: To keep every selected status in memory, press OK button.

DISASSEMBLY INSTRUCTIONS

Important note
This set is disconnected from the power supply through the converter transformer. An isolating transformer is necessary for service operations on the primary side of the converter transformer.

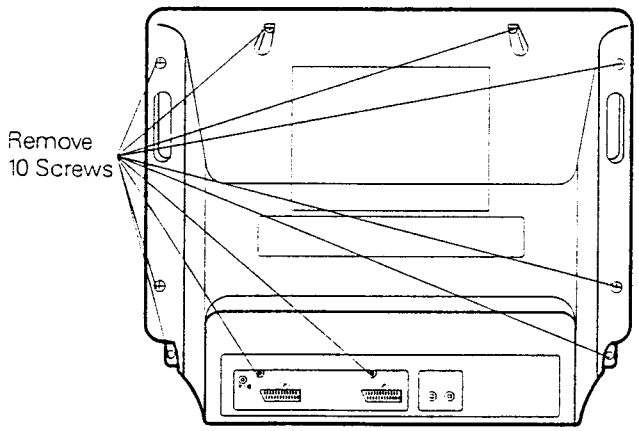
Back Cabinet Removal
Remove 10 screws residing on the back cabinet and carefully separate the back cabinet from the front cabinet.

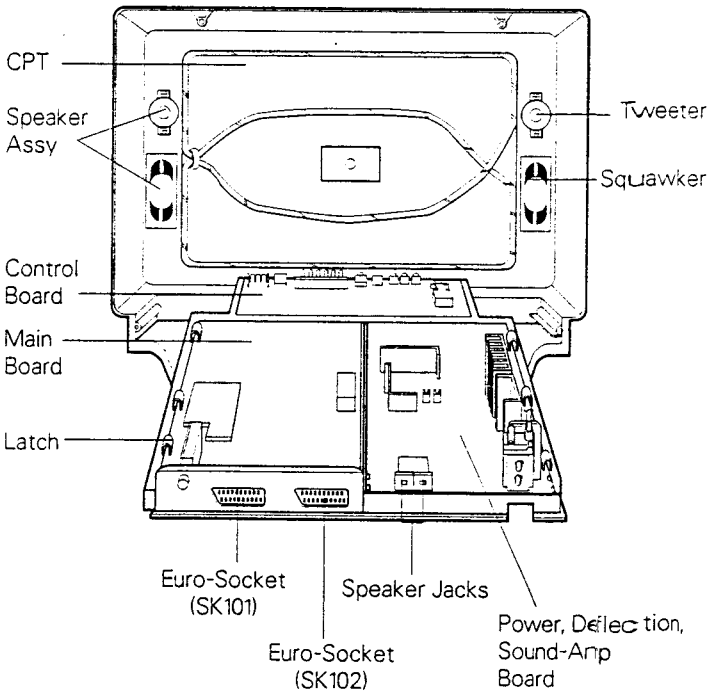
CPT Removal
1. Pull out the CPT board from the CPT neck.
2. Place the front cabinet on soft material not to mar the front surface or damage control knobs.
3. Remove 4 screws securing the picture tube mounting brackets to the front cabinet.
4. Carefully separate CPT from the front cabinet.

Chassis Assy Removal
Slide the chassis back and out of the cabinet.

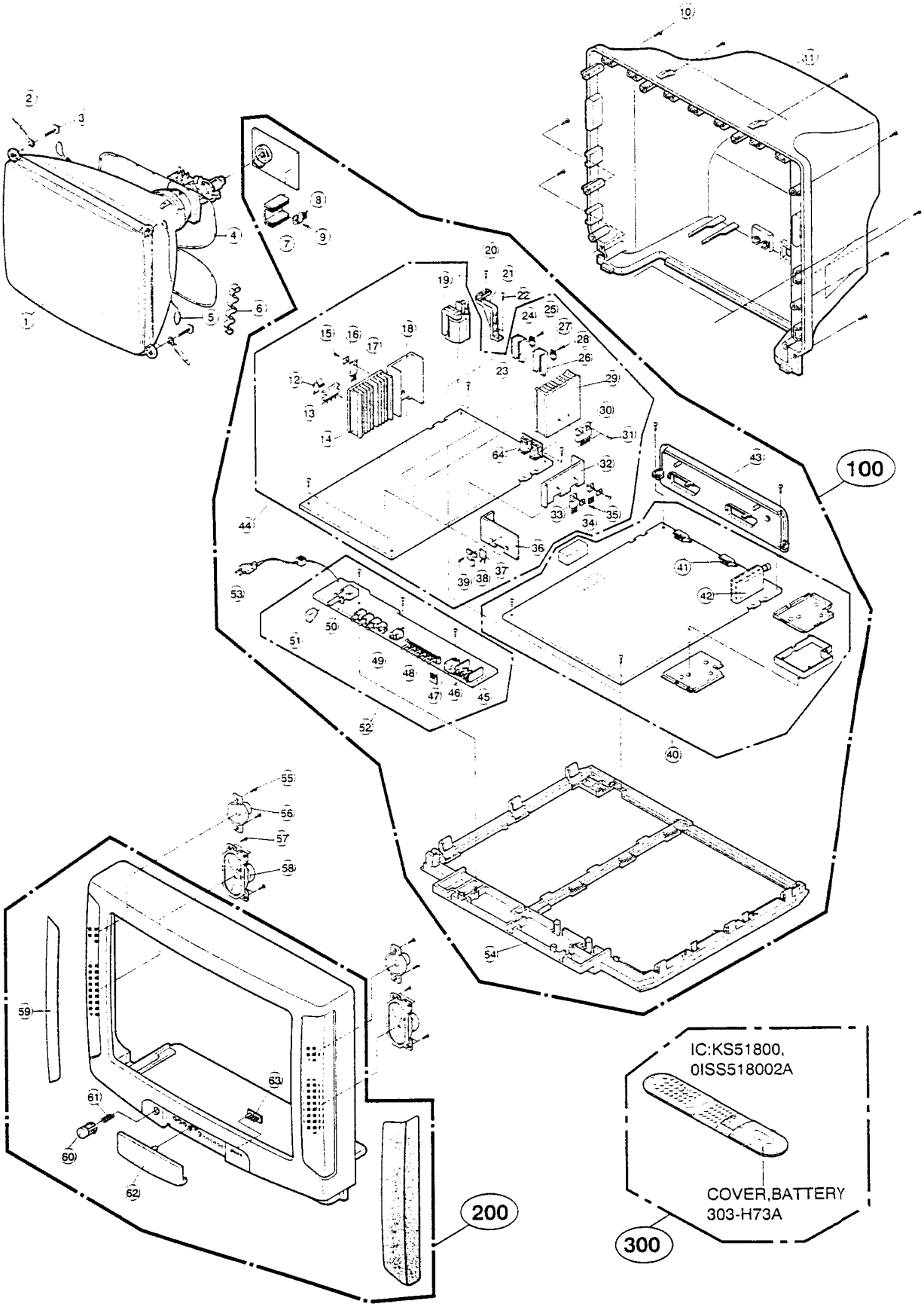
Speaker Assy Removal
1. Remove P651, P652 connector from Power, Deflection, Sound-Amp Board.
2. Remove 2 screws for tweeter speaker and 4 for squawker on front cabinet.

PICTURE TUBE HANDLING CAUTION
Due to high vacuum and large surface area of picture tube, great care must be exercised when handling picture tube. Always lift picture tube by grasping it firmly around faceplate.
NEVER LIFT TUBE BY ITS NECK! The picture tube must not be scratched or subjected to excessive pressure as fracture of glass may result in an implosion of considerable violence which can cause personal injury or property damage.





EXPLODED VIEW



EXPLODED VIEW PARTS LIST

NO		DESCRIPTION	P/N
⚠ 1	*	CPT	112-C28B
2		HOLDER, D-COIL (L=130)	341-721B
3		SCREW, HEXAGON HEAD	332-229G
⚠ 4		COIL, D-COIL 29"	150-822F
⚠ 5		LEAD SET, CPT EARTH	170-586Y
6		HOLDER, D-COIL SPRING TYPE	341-685A
7		PLATE, H/S	407-E60H
8		IC, SGS-THOMSON TEA5101A	0ISG510100A
9		SCREW, PAN HEAD D3.0 L12.0	1BPF0302416
10		SCREW, TRUSS HEAD D4 L16	1PTF0403116
11		COVER, ASSY BACK	303-G87W
12		SCREW, BRAIZER D3, L10	320-174A
13		IC, PHILIPS TDA8350 Q/V2	0IPH835020A
14		PLATE, H/S	407-Q05B
15		SCREW, BRAIZER D3 L12	1PRF0302816
16		WASHER, Q W3 (10 * 6 * 1.8T)	334-036A
17		TRANSISTOR BU2508DF	0TR487120AA
18		PLATE, H/S	407-K90D
⚠ 19		FBT	154-374B
20		SCREW, TRUSS D4 L14	1PTF0403016
21		SUPPORTER, FBT	343-B06A
22		SCREW, BRAZ D3.0 L12.0	1PWG0302816
23		PLATE, H/S	407-F43C
24		DIODE, FML-G12S	0DD120000BB
25		SCREW, PAN WASHER D3, L12.0	1BWF0302616
26		PLATE H/S	407-F43C
27		DIODE, FML-G12S	0DD120000BB
28		SCREW, PAN WASHER D3, L10.0	1BWF0302616
29		PLATE, H/S	407-Q05C
30		IC, TOSHIBA TA8200AH	0ITO820000A
31		SCREW, BRAIZER D3, L10.0	1PRF0302616
32		PLATE, H/S	407-Q41A
33		TRANSISTOR, KTD2058	0TR205800BB
34		WASHER	1PRF0302816
35		SCREW, BRAIZER D3, L12	334-036A
36		PLATE, H/S	407-Q05G
37		FET, BUZ91A	0TF910000AA
38		SPRING, PLATE	320-173A
39		SCREW, PAN HEAD D3 L12.0	1BPF0302816
40		PCB ASSY, MAIN 1	109-146A
41		SOCKET, SCART JACK	381-091A
42		TUNER	113-234B
43		BOARD, A/V	401-721B
44		PCB ASSY, MAIN2	109-144A
45		HOLDER, LED	341-752A
46		LED	0DL100000AE, 0DL138000AA
47		PRE-AMP	106-048A
48		SWITCH, TACT	140-248D
49		JACK, HEADPHONE	380-068A
⚠ 50		SWITCH, MAIN	140-278C
51		LINK, POWER S/W	351-008A
52		PCB ASSY, CONTROL	109-165A
53		CORD ASSY, POWER	174-199J
54		FRAME, MAIN	312-374A
55		SCREW, D4 L10	1PTF0402616
56		SPEAKWER, TWEETER	120-C76A
57		SCREW, D4 L10	1PTF0402616
58		SPEAKER, 8 OHM 5W	120-C77F
59		GRILL, SPEAKER	314-325A
60		BUTTON, POWER	441-330A
61		SPRING, KNOB	320-062J
62		DOOR, CONTROL	315-613A
63		WINDOW, PRE-AMP	316-403A
64		JACK, EXTERNAL SPEAKER	380-338A

SUB ASSY

100	CHASSIS ASSY, MAIN	309-A97A
200	CABINET ASSY	300-B40D
300	TRANSMITTER ASSY	105-212C

Since the parts which is marked with ⚠ in this Exploded View parts list is local parts, do not order them to Korea.

REPLACEMENT PARTS LIST

Three parts which are marked with "R" in the "AL" column of this replacement parts list are in the remote control unit.

SAFETY PARTS LIST OF PC-33B CHASSIS ⚠

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed without being noticed by a visual inspection and the X-RAY RADIATION protection afforded by some of them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified by ⚠ marks on the circuit diagram. Before replacing any these components, read the specification of the part carefully. The use of substitute replacement parts which do not have the same characteristics as specified in this parts list may create X-RAY RADIATION.

LOCA. NO.	DESCRIPTION
C405	CAPACITOR
C801	CAPACITOR
C809	CAPACITOR, ELECTROLYTIC
C840	CAPACITOR, CERAMIC
C841	CAPACITOR, CERAMIC
D801	DIODE
FR651	RESISTOR FUSIBLE
FR701	RESISTOR FUSIBLE
FR702	RESISTOR FUSIBLE
FR703	RESISTOR FUSIBLE
FR705	RESISTOR FUSIBLE
FR801	RESISTOR FUSIBLE
FR802	FUSE
F801A	FUSE
IC301	IC
IC801	IC
L801	COIL
P801A	-
P801B	-
P802B	-
P808	-
P809	-
P810	-
Q402	TRANSISTOR
Q801	TRANSISTOR
R405	RESISTOR, FIX METAL FIL OXIDE
R802	RESISTOR, CEMENT PWR
R840	RESISTOR
SW801A	SWITCH
T401	THERMISTOR
T701	FBT
T801	TRANSFORMER
TH801	THERMISTOR
	POWER SWITCH
	COIL, DEGAUSSING
	DY
	CPT

(REPLACEMENT PARTS LIST) PAGE : 1

MODEL : SCB28C22X BPGRG7 SET PART NO : 200-845A RUN-DATE : 94.03.08

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
			M309A97A	CHASSIS ASSY	MAIN PC33B 28" SKD	
	R		QCE4756K618	C.ELECTROLYTIC	4.7MF SMS 50V M	
	R		01SS518002A	IC.SAMSUNG SEMICONDUCTOR	KS51800-24(OHS2209P)20SOP TX	
			1BWF0302416	SCREW.PAN WASH HEAD TAP TITE +	D3.0 L8.0 MSWR3/(BK)	
			1PTF0402616	SCREW.TRUSS HEAD TAP TITE +	D4 L10 MSWR3/BK	
			1PTF0403016	SCREW.TRUSS HEAD TAP TITE +	"P" TYPE D4 L14 MSWR3/BK	
			105-212C	TRANSMITTER	ASSY.UNIFIED(PC-33A)	
			109-144A	PCB ASSY	MAIN2 PC33B(M-IN) 28"	
			109-146A	PCB ASSY	MAIN1 PC33B(28"W/T M-IN)	
			109-165A	PCB ASSY	CONTROL B/G PC33B	
			110-Y22P	PCB ASSY	CPT PC33B(M-IN)	
			111-M18A	PCB	MAIN1 PC33B DOUBLE SIDE	
			120-C76A	SPEAKER	TWEETER C050D06H0151	
			120-C77F	SPEAKER	8OHM 5W	
			120-D23A	SPEAKER	CB29C20X	
			150-822F	COIL	D-COIL 29" AC120V60HZ 40T 5197	
	R		166-015U	FILTER	KBR455BKTLR(WASHABLE)	
			170-586Y	LEAD SET	CPT EARTH FOR 29INCH	
			174-179B	CORD	DW-1	
			174-199J	CORD	POWER,CBT-2170/2171	
			300-B40D	CABINET ASSY	SCB28C22X(7091,G/S)	
			302-712A	CASE	SHIELD(PC-33A)	
			302-973A	CASE	SHIELD,PC-33B(FTZ)	
			303-G87W	COVER	ASSY,BACK(SCF28C22F)40AF	
			303-G88A	COVER	SHIELD(PC-33A)	
			303-H54A	COVER	SHIELD P-AMP(PC-33A)	
			303-H73A	COVER	BATTERY (105-212)	
			303-J27A	COVER	SHIELD,PC-33B(FTZ)	
			305-002D	HOUSING	2P AMP 171157 1 (10)	
			305-129A	HOUSING	MKH2806-1-0-600(STOCKO)	
			309-A97A	CHASSIS ASSY	MAIN PC33B 28INCH	
			312-374A	FRAME	MAIN CHASSIS(PC33A,MC25A,NC34A	
			314-325A	GRILL	SPEAKER,CB-28C22X	
			315-613A	DOOR	CONTROL,CB-28C22X	
			316-403A	WINDOW	PRE-AMP (CB-29C20)	
			320-062J	SPRING	KNOB	
			332-229G	SCREW	HEXAGON HEAD(L:40,D:22)	
			341-184D	HOLDER	LEAD TWISTER	
			341-242F	HOLDER	POWER CORD	
			341-574A	HOLDER	ANODE LEAD	
			341-685A	HOLDER	D-COIL SPRING TYPE	
			341-721B	HOLDER	D COIL (FOR AUTO.L=130)	
			343-B06A	SUPPORTER	FBT(TOP LOADING,PC-33A)	
			351-008A	LINK	POWER S/W FOR MC-97A CHASSIS	
			387-552M	CONNECTOR	AS,2P (HOUSING TO HOUSING)ING	
			387-572A	CONNECTOR ASSY	FOR DY(PHILIPS 28")	
			401-721B	BOARD	A/V	
			407-Q90A	PLATE	CONTROL DECO. (CB 28C22X)	
			410-585B	MARK	BRAND GS(FORGING,25"-29")	

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S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
			470-861A	LOCK	ASSY,DOOR KIFCO	
			482-G95A	INSTRUCTIONS(OWNER'S MANUAL)	PC33B,28C22X,GSDG,212C TX	
			484-896A	DIAGRAM	CIRCUIT CB-28C22X MAIN 28"	
			486-181B	CARD	DBP (QUELLE)	
		C01	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		C02	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		C03	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		C04	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		C05	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		C06	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		C07	OCN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z	
		C08	OCE1076D618	C,ELECTROLYTIC	100MF SMS 10V M	
		C09	OCC3300K415	CAPACITOR CERAMIC(TEMP COMP)	33P 50V J NPO TP	
		C10	OCC3300K415	CAPACITOR CERAMIC(TEMP COMP)	33P 50V J NPO TP	
		C101	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C102	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C103	OCX0100K609	CAPACITOR TUBULA(T.C)	1P 50V M SL TA52	
		C104	OCX1500K419	C,TUBULA(T.C)	15P 50V J	
		C105	OCX1500K419	C,TUBULA(T.C)	15P 50V J	
		C106	OCX0100K609	CAPACITOR TUBULA(T.C)	1P 50V M SL TA52	
		C107	OCE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C108	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M	
		C109	OCE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C11	OCE1066F618	C,ELECTROLYTIC	10MF SMS 16V M	
		C110	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M	
		C111	OCE1076F618	C,ELECTROLYTIC	100MF SMS 16V M	
		C12	OCN3920F569	C,TUBULA(HIGH DIELE)	3900P 16V K	
		C13	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C141	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C142	OCQ3331N509	C,POLYESTER(MYLAR)	0.033U 100V K	
		C143	OCQ3331N509	C,POLYESTER(MYLAR)	0.033U 100V K	
		C144	OCX2700K409	C,TUBULA(T.C)	27PF 50V J	
		C145	OCN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z	
		C146	OCE2256K618	C,ELECTROLYTIC	2.2MF SMS 50V M	
		C147	OCE2256K618	C,ELECTROLYTIC	2.2MF SMS 50V M	
		C148	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M	
		C149	OCE4766D618	C,ELECTROLYTIC	47MF SMS 16V M	
		C150	OCK1030K945	C,CERAMIC(HIGH DIELE)	0.01MF 50V Z	
		C152	OCE1076F618	C,ELECTROLYTIC	100MF SMS 16V M	
		C153	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M	
		C16	OCE4766D618	C,ELECTROLYTIC	47MF SMS 16V M	
		C17	OCN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z	
		C18	OCE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C181	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C182	OCN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z	
		C183	OCE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C184	OCK1040K945	C,CERAMIC(HIGH DIELE)	0.1M 50V Z	
		C185	OCE4766K618	C,ELECTROLYTIC	47M SMS 50V M	
		C186	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M	
		C187	OCE4766D618	C,ELECTROLYTIC	47MF SMS 16V M	

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S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C19	OCN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z	
		C192	OCN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M	
		C193	OCE4746K618	C,ELECTROLYTIC	0.47MF SMS 50V M	
		C194	OCK1040K945	C,CERAMIC(HIGH DIELE)	0.1M 50V Z	
		C201	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C202	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C203	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C204	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C205	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C206	OCE4756K618	C,ELECTROLYTIC	4.7MF SMS 50V M	
		C207	OCE1066F618	C,ELECTROLYTIC	10MF SMS 16V M	
		C208	OCN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z	
		C209	OCE1076F618	C,ELECTROLYTIC	100MF SMS 16V M	
		C210	OCE1066F618	C,ELECTROLYTIC	10MF SMS 16V M	
		C211	OCE1066F618	C,ELECTROLYTIC	10MF SMS 16V M	
		C212	OCE1066F618	C,ELECTROLYTIC	10MF SMS 16V M	
		C213	OCN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z	
		C214	OCE1076F618	C,ELECTROLYTIC	100MF SMS 16V M	
		C215	OCE1056K618	C,ELECTROLYTIC	1.0MF SMS 50V M	
		C216	OCE1056K618	C,ELECTROLYTIC	1.0MF SMS 50V M	
		C217	OCE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C218	OCE1066F618	C,ELECTROLYTIC	10MF SMS 16V M	
		C219	OCE1066F618	C,ELECTROLYTIC	10MF SMS 16V M	
		C220	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C221	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C222	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C223	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C224	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C225	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C226	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C227	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C228	OCE1066F618	C,ELECTROLYTIC	10MF SMS 16V M	
		C229	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		C230	OCE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C238	OCE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C252	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C253	OCN3910K519	C,TUBULA(HIGH DIELE)	390P 50V K	
		C256	OCN2220F569	C,TUBULA(HIGH DIELE)	2200P 16V K	
		C257	OCN2220F569	C,TUBULA(HIGH DIELE)	2200P 16V K	
		C258	OCN8220F579	C,TUBULA(HIGH DIELE)	8200P 16V K	
		C259	OCN8220F579	C,TUBULA(HIGH DIELE)	8200P 16V K	
		C261	OCE4776D618	C,ELECTROLYTIC	470U SMS 10V M	
		C261	OCK1030K945	C,CERAMIC(HIGH DIELE)	0.01MF 50V Z	
		C262	OCK1030K945	C,CERAMIC(HIGH DIELE)	0.01MF 50V Z	
		C263	OCN4710K519	C,TUBULA(HIGH DIELE)	470PF 50V K	
		C266	OCN4710K519	C,TUBULA(HIGH DIELE)	470PF 50V K	
		C267	OCN4710K519	C,TUBULA(HIGH DIELE)	470PF 50V K	
		C274	OCN4710K519	C,TUBULA(HIGH DIELE)	470PF 50V K	
		C275	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		C276	OCN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C281	OCN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C282	OCN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C301	OCE4776J618	C.ELECTROLYTIC	470UF SMS 35V M	
		C302	OCE1076N618	C.ELECTROLYTIC	100M SMS100V M	
		C304	OCQ1031N509	C.POLYESTER(MYLAR)	0.01U 100V K	
		C305	181-0641	CAPACITOR	CE BP 50V 6.8UF M (16*35.5)	
		C306	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C307	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C309	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C310	OCK1040K945	C.CERAMIC(HIGH DIELE)	0.1M 50V Z	
		C402	OCK3910K515	CAPACITOR CERAMIC(HIGH DIELE)	390P 50V K B TS	
		C403	OCQ1021N509	C.POLYESTER(MYLAR)	0.001U 100V K	
		C404	OCE4756R618	C.ELECTROLYTIC	4.7U SMS 250V M	
		C405	181-038D	CAPACITOR	MPP 400V 0.24MF J	
		C407	181-083A	CAPACITOR	PP 1600V 0.003MF J	
		C408	181-131D	CAPACITOR	MPP 1.6KV 103J	
		C409	181-095F	CAPACITOR PE	0.033MF 400V K	
		C413	OCE106BR618	CAPACITOR,ELECTROLYTIC	10UF KME 250V M FL TP5	
		C414	OCE1051R618	C.ELECTROLYTIC	1.0M SM 250V M	
		C501	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C502	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C503	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C504	OCN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C505	OCE2276F618	C.ELECTROLYTIC	220MF SMS 16V M	
		C506	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C507	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C508	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C509	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C51	OCC1500K415	C.CERAMIC(TEMP COMP)	15P 50V J	
		C510	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C511	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C512	OCE1056K618	C.ELECTROLYTIC	1.0MF SMS 50V M	
		C513	OCE1056K618	C.ELECTROLYTIC	1.0MF SMS 50V M	
		C514	181-032Y	CAPACITOR,TANTAL	3.3MF 16V K TAPING	
		C515	181-444N	C.METALPOLYESTER	0.47MF 50V J	
		C516	181-444J	C.METALPOLYESTER	0.22MF 50V J	
		C517	181-444J	C.METALPOLYESTER	0.22MF 50V J	
		C518	181-444J	C.METALPOLYESTER	0.22MF 50V J	
		C519	181-444N	C.METALPOLYESTER	0.47MF 50V J	
		C52	OCQ1021N509	C.POLYESTER(MYLAR)	0.001U 100V K	
		C520	181-444N	C.METALPOLYESTER	0.47MF 50V J	
		C521	OCC1010K415	C.CERAMIC(TEMP COMP)	100P 50V J	
		C522	OCC1010K415	C.CERAMIC(TEMP COMP)	100P 50V J	
		C523	OCC3310K405	CAPACITOR CERAMIC(TEMP COMP)	330P 50V J SL TS	
		C524	OCC2210K415	CAPACITOR CERAMIC(TEMP COMP)	220P 50V J NP0 TP	
		C525	OCC2210K415	CAPACITOR CERAMIC(TEMP COMP)	220P 50V J NP0 TP	
		C526	OCN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C527	OCE4776F618	C.ELECTROLYTIC	470MF SMS 16V M	
		C529	181-444N	C.METALPOLYESTER	0.47MF 50V J	
		C53	OCK4710K515	C.CERAMIC(HIGH DIELE)	470P 50V K	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C533	OCN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C534	OCE1076F618	C.ELECTROLYTIC	100MF SMS 16V M	
		C535	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C538	OCQ1041N455	CAPACITOR,POLYESTER(MYLAR)	0.1000UF 100V J PP NI FM7.5	
		C539	OCQ3321N509	C.POLYESTER(MYLAR)	0.0033U 100V K	
		C54	OCQ2231N509	C.POLYESTER(MYLAR)	0.022MF 100V K	
		C540	181-112H	C.ELECTROLYTIC	0.68MF 50V	
		C541	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C542	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C543	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C544	OCE4756K618	C.ELECTROLYTIC	4.7MF SMS 50V M	
		C545	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C546	OCQ4721N509	C.POLYESTER(MYLAR)	0.0047U 100V K	
		C547	OCQ2231N509	C.POLYESTER(MYLAR)	0.022MF 100V K	
		C548	OCC2210K415	CAPACITOR CERAMIC(TEMP COMP)	220P 50V J NP0 TP	
		C549	OCC1500K415	C.CERAMIC(TEMP COMP)	15P 50V J	
		C55	OCC2710K415	CAPACITOR CERAMIC(TEMP COMP)	270P 50V J NP0 TP	
		C550	OCQ1041N509	C.POLYESTER(MYLAR)	0.1MF 100V L	
		C552	OCE4766D618	C.ELECTROLYTIC	47MF SMS 16V M	
		C554	OCE4766D618	C.ELECTROLYTIC	47MF SMS 16V M	
		C555	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C556	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C557	OCE1076F618	C.ELECTROLYTIC	100MF SMS 16V M	
		C558	OCN1020K519	C.TUBULA(HIGH DIELE)	1000PF 50V K	
		C559	OCE1076F618	C.ELECTROLYTIC	100MF SMS 16V M	
		C56	OCC1010K415	C.CERAMIC(TEMP COMP)	100P 50V J	
		C562	OCK4710K515	C.CERAMIC(HIGH DIELE)	470P 50V K	
		C563	OCK4710K515	C.CERAMIC(HIGH DIELE)	470P 50V K	
		C564	OCK4710K515	C.CERAMIC(HIGH DIELE)	470P 50V K	
		C565	OCC5100K415	CAPACITOR CERAMIC(TEMP COMP)	51P 50V J NP0 TP	
		C566	OCN1810K519	CAPACITOR TUBULA(HIGH DIELE)	180PF 50V K B TA52	
		C567	OCE4766F618	C.ELECTROLYTIC	47MF SMS 16V M	
		C568	OCC2700K415	CAPACITOR CERAMIC(TEMP COMP)	27P 50V J NP0 TP	
		C569	OCX1500K419	C.TUBULA(T.C)	15P 50V J	
		C57	OCC1500K415	C.CERAMIC(TEMP COMP)	15P 50V J	
		C570	OCC1500K415	C.CERAMIC(TEMP COMP)	15P 50V J	
		C58	OCC2700K415	CAPACITOR CERAMIC(TEMP COMP)	27P 50V J NP0 TP	
		C59	OCN1030F679	C.TUBULA(HIGH DIELE)	0.01MF 16V M	
		C60	OCN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C601	OCE1066F618	C.ELECTROLYTIC	10MF SMS 16V M	
		C602	OCE1066F618	C.ELECTROLYTIC	10MF SMS 16V M	
		C603	OCE1066F618	C.ELECTROLYTIC	10MF SMS 16V M	
		C604	OCN1020K519	C.TUBULA(HIGH DIELE)	1000PF 50V K	
		C606	OCE4756K618	C.ELECTROLYTIC	4.7MF SMS 50V M	
		C607	OCE4756K618	C.ELECTROLYTIC	4.7MF SMS 50V M	
		C608	OCE4756K618	C.ELECTROLYTIC	4.7MF SMS 50V M	
		C609	OCE4756K618	C.ELECTROLYTIC	4.7MF SMS 50V M	
		C61	OCE1076F618	C.ELECTROLYTIC	100MF SMS 16V M	
		C610	OCQ6821N509	C.POLYESTER(MYLAR)	0.0068U 100V K	
		C611	OCQ6821N509	C.POLYESTER(MYLAR)	0.0068U 100V K	

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S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C612	0CQ4731N509	C.POLYESTER(MYLAR)	0.047U 100V K	
		C613	0CQ4731N509	C.POLYESTER(MYLAR)	0.047U 100V K	
		C615	0CQ1521N509	C.POLYESTER(MYLAR)	0.0015U 100V K	
		C616	0CQ1521N509	C.POLYESTER(MYLAR)	0.0015U 100V K	
		C617	0CE1056K618	C.ELECTROLYTIC	1.0MF SMS 50V M	
		C618	0CE1056K618	C.ELECTROLYTIC	1.0MF SMS 50V M	
		C619	0CN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C62	0CC1200K415	CAPACITOR.CERAMIC(TEMP COMP)	12P 50V J NP0 TS	
		C620	0CE2276F618	C.ELECTROLYTIC	220MF SMS 16V M	
		C621	181-0322	C.TANTAL	2.2MF 25V K	
		C622	181-0322	C.TANTAL	2.2MF 25V K	
		C623	0CQ3321N509	C.POLYESTER(MYLAR)	0.0033U 100V K	
		C624	0CK6810K515	C.CERAMIC(HIGH DIELE)	680P 50V K	
		C625	0CN2710K519	C.TUBULA(HIGH DIELE)	270PF 50V K	
		C626	0CN2710K519	C.TUBULA(HIGH DIELE)	270PF 50V K	
		C63	0CQ4731N509	C.POLYESTER(MYLAR)	0.047U 100V K	
		C631	0CE2276F618	C.ELECTROLYTIC	220MF SMS 16V M	
		C632	0CN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C633	0CE2276F618	C.ELECTROLYTIC	220MF SMS 16V M	
		C634	0CE2276F618	C.ELECTROLYTIC	220MF SMS 16V M	
		C635	0CE2266F618	C.ELECTROLYTIC	22MF SMS 16V M	
		C636	0CN3320F569	CAPACITOR TUBULA(HIGH DIELE)	3300PF 16V K X TA52	
		C637	0CN3320F569	CAPACITOR TUBULA(HIGH DIELE)	3300PF 16V K X TA52	
		C638	0CE2266F618	C.ELECTROLYTIC	22MF SMS 16V M	
		C64	0CC1800K415	C.CERAMIC(TEMP COMP)	18P 50V J	
		C65	0CQ4731N509	C.POLYESTER(MYLAR)	0.047U 100V K	
		C651	0CE4766F618	C.ELECTROLYTIC	47MF SMS 16V M	
		C652	181-444N	C.METALPOLYESTER	0.47MF 50V J	
		C653	0CQ1021N509	C.POLYESTER(MYLAR)	0.001U 100V K	
		C654	181-444N	C.METALPOLYESTER	0.47MF 50V J	
		C655	0CQ1021N509	C.POLYESTER(MYLAR)	0.001U 100V K	
		C656	0CE4766F618	C.ELECTROLYTIC	47MF SMS 16V M	
		C657	0CE4766F618	C.ELECTROLYTIC	47MF SMS 16V M	
		C658	0CE1056K618	C.ELECTROLYTIC	1.0MF SMS 50V M	
		C659	0CK1040K945	C.CERAMIC(HIGH DIELE)	0.1M 50V Z	
		C66	0CC3010K405	CAPACITOR CERAMIC(TEMP.COMP)	300P 50V J SL TS	
		C660	0CE2286J650	C.ELECTROLYTIC	2200U SMS 35V M	
		C661	0CE2256K618	C.ELECTROLYTIC	2.2MF SMS 50V M	
		C663	0CE2276F618	C.ELECTROLYTIC	220MF SMS 16V M	
		C664	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C665	0CE4776H618	C.ELECTROLYTIC	470U SMS 25V M	
		C666	181-444E	C.METALPOLYESTER	0.1MF 50V J	
		C667	0CE4776H618	C.ELECTROLYTIC	470U SMS 25V M	
		C67	0CQ6831N509	C.POLYESTER(MYLAR)	0.068U 100V K	
		C670	0CK1030K945	C.CERAMIC(HIGH DIELE)	0.01MF 50V Z	
		C671	0CN1030F679	C.TUBULA(HIGH DIELE)	0.01MF 16V M	
		C673	0CK1030K945	C.CERAMIC(HIGH DIELE)	0.01MF 50V Z	
		C674	0CK1040K945	C.CERAMIC(HIGH DIELE)	0.1M 50V Z	
		C68	0CE2256K618	C.ELECTROLYTIC	2.2MF SMS 50V M	
		C69	0CN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	

MODEL : SCB28C22X BPGRG7 SET PART NO : 200-845A RUN-DATE : 94.03.08

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C70	0CE1076D618	C.ELECTROLYTIC	100MF SMS 10V M	
		C701	181-059D	C.POLYPROPYLENE	0.047MF 200V K	
		C703	0CK2710W515	C.CERAMIC(HIGH DIELE)	270P 500V K	
		C704	0CE2261R618	C.ELECTROLYTIC	22M SM 250V M	
		C705	0CC27111405	CAPACITOR.CERAMIC(TEMP COMP)	270PF 105C 1KV J SL TR	
		C706	0CE4776J618	C.ELECTROLYTIC	470UF SMS 35V M	
		C707	0CK2710W515	C.CERAMIC(HIGH DIELE)	270P 500V K	
		C708	0CE4766N618	C.ELECTROLYTIC	47U SMS 100V M	
		C709	0CE4766K618	C.ELECTROLYTIC	47M SMS 50V M	
		C710	0CK5610W515	C.CERAMIC(HIGH DIELE)	560PF 500V K	
		C72	0CC1010K415	C.CERAMIC(TEMP COMP)	100P 50V J	
		C73	0CQ1521N509	C.POLYESTER(MYLAR)	0.0015U 100V K	
		C74	0CN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C75	0CE1076D618	C.ELECTROLYTIC	100MF SMS 10V M	
		C76	0CN1040K949	C.TUBULA(HIGH DIELE)	0.1M 50V Z	
		C77	0CE1076D618	C.ELECTROLYTIC	100MF SMS 10V M	
		C78	0CN1030F679	C.TUBULA(HIGH DIELE)	0.01MF 16V M	
		C79	0CE1076D618	C.ELECTROLYTIC	100MF SMS 10V M	
		C80	0CC3300K415	CAPACITOR CERAMIC(TEMP COMP)	33P 50V J NP0 TP	
		C801	181-408C	CAPACITOR	250V 0.47UF(ISKRA)	
		C805	0CK10201515	CAPACITOR.CERAMIC(HIGH DIELE)	1000P 1KV K B TS	
		C806	0CK10201515	CAPACITOR.CERAMIC(HIGH DIELE)	1000P 1KV K B TS	
		C807	0CK10201515	CAPACITOR.CERAMIC(HIGH DIELE)	1000P 1KV K B TS	
		C808	0CK10201515	CAPACITOR.CERAMIC(HIGH DIELE)	1000P 1KV K B TS	
		C809	181-124V	CAPACITOR.ELECTROLYTIC	330MF 400V MINI-TYPE	
		C81	0CC3300K415	CAPACITOR CERAMIC(TEMP COMP)	33P 50V J NP0 TP	
		C811	0CQ6821N519	CAPACITOR POLYESTER(MYLAR)	0.0068U 100V K POLY NI TP	
		C813	0CE2256K618	C.ELECTROLYTIC	2.2MF SMS 50V M	
		C814	0CQ3321N509	C.POLYESTER(MYLAR)	0.0033U 100V K	
		C815	0CE3366K618	C.ELECTROLYTIC	33MF SMS 50V M	
		C816	181-444J	C.METALPOLYESTER	0.22MF 50V J	
		C817	0CC27111405	CAPACITOR.CERAMIC(TEMP COMP)	270PF 105C 1KV J SL TR	
		C818	181-061N	CAPACITOR	PP 630V 0.039MFJ	
		C82	0CE1066F618	C.ELECTROLYTIC	10MF SMS 16V M	
		C821	0CE1066F618	C.ELECTROLYTIC	10MF SMS 16V M	
		C823	0CE1076D618	C.ELECTROLYTIC	100MF SMS 10V M	
		C824	0CE4766F618	C.ELECTROLYTIC	47MF SMS 16V M	
		C825	0CK2710W515	C.CERAMIC(HIGH DIELE)	270P 500V K	
		C826	0CE1086F618	C.ELECTROLYTIC	1000M SMS 16V M	
		C827	0CE1086D618	C.ELECTROLYTIC	1000U SMS 10V M	
		C828	0CK2710W515	C.CERAMIC(HIGH DIELE)	270P 500V K	
		C829	0CE4776J618	C.ELECTROLYTIC	470UF SMS 35V M	
		C830	0CK2710W515	C.CERAMIC(HIGH DIELE)	270P 500V K	
		C831	0CE1086H618	C.ELECTROLYTIC	1000U SMS 25V M	
		C832	0CE1086H618	C.ELECTROLYTIC	1000U SMS 25V M	
		C833	0CE1076F618	C.ELECTROLYTIC	100MF SMS 16V M	
		C834	0CC10112400	CAPACITOR.CERAMIC(TEMP COMP)	100PF 105C 2KV J SL R	
		C836	0CE107BQ650	CAPACITOR.ELECTROLYTIC	100U FME 200V M FM7.5	
		C837	0CE107BQ650	CAPACITOR.ELECTROLYTIC	100U FME 200V M FM7.5	
		C838	181-444N	C.METALPOLYESTER	0.47MF 50V J	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		C84	0CE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C840	181-410A	CAPACITOR,CERAMIC	4700PF A.C 125V M UL/CSA	
		C841	181-410A	CAPACITOR,CERAMIC	4700PF A.C 125V M UL/CSA	
		C842	0CE1076F618	C,ELECTROLYTIC	100MF SMS 16V M	
		C87	0CN1030F679	C,TUBULA(HIGH DIELE)	0.01MF 16V M	
		C901	0CX2200K409	C,TUBULA(T.C)	22PF 50V J	
		C902	0CX2200K409	C,TUBULA(T.C)	22PF 50V J	
		C903	0CX2200K409	C,TUBULA(T.C)	22PF 50V J	
		C904	0CK1020K945	C,CERAMIC(HIGH DIELE)	1000P 50V Z	
		C905	0CK1020K945	C,CERAMIC(HIGH DIELE)	1000P 50V Z	
		C906	0CC5600K415	C,CERAMIC(TEMP COMP)	56P 50V J	
		C908	0CX5100K409	C,TUBULA(T.C)	51P 50V J	
		C91	0CE1076D618	C,ELECTROLYTIC	100MF SMS 10V M	
		C911	0CN1040K949	C,TUBULA(HIGH DIELE)	0.1M 50V Z	
		C912	0CE1076F618	C,ELECTROLYTIC	100MF SMS 16V M	
		C914	0CK1020W515	C,CERAMIC(HIGH DIELE)	1000PF 500V K	
		C915	0CK10202510	C,CERAMIC(HIGH DIELE)	1000P 2KV K	
		C916	0CE2261R618	C,ELECTROLYTIC	22M SM 250V M	
		C918	0CX5100K409	C,TUBULA(T.C)	51P 50V J	
		C919	0CE4766F618	C,ELECTROLYTIC	47MF SMS 16V M	
		C928	0CX5100K409	C,TUBULA(T.C)	51P 50V J	
		C93	0CE1076F618	C,ELECTROLYTIC	100MF SMS 16V M	
		C940	0CE2251R618	C,ELECTROLYTIC	2.2M SM 250V M	
		C98	0CN1010K519	C,TUBULA(HIGH DIELE)	100PF 50V K	
		D01	0DD414809ED	DIODE	DS4148	
		D02	0DD414809ED	DIODE	DS4148	
		D103	0DD414809ED	DIODE	DS4148	
		D261	0DL100000AE	DIODE,LED	DL-1LO (DIFFUSION TYPE)	
		D262	0DL100000AE	DIODE,LED	DL-1LO (DIFFUSION TYPE)	
		D263	0DL138000AA	DIODE,LED	KLRG138A,DUAL LED,KEC	
		D301	0DD414809ED	DIODE	DS4148	
		D302	0DD414809ED	DIODE	DS4148	
		D303	0DD414809ED	DIODE	DS4148	
		D304	0DD414809ED	DIODE	DS4148	
		D305	0DD414809ED	DIODE	DS4148	
		D306	0DD414809ED	DIODE	DS4148	
		D307	0DD414809ED	DIODE	DS4148	
		D308	0DD414809ED	DIODE	DS4148	
		D401	0DD410000AC	DIODE	RU4DS,LF-L1 SANKEN	
		D402	0DD410000AC	DIODE	RU4DS,LF-L1 SANKEN	
		D405	0DD150009CA	DIODE	RGP15J,TP(52MM),GI	
		D506	0DD414809ED	DIODE	DS4148	
		D508	0DD414809ED	DIODE	DS4148	
		D509	0DD414809ED	DIODE	DS4148	
		D512	0DD410009AA	DIODE	SCHOTTKY,BAT 41 TP	
		D53	0DD414809ED	DIODE	DS4148	
		D601	0DD414809ED	DIODE	DS4148	
		D602	0DD414809ED	DIODE	DS4148	
		D631	0DD414809ED	DIODE	DS4148	
		D653	0DD414809ED	DIODE	DS4148	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		D654	0DD414809ED	DIODE	DS4148	
		D701	0DD060009AC	DIODE	TVR06J 0.6A/600V 250NS	
		D702	0DD150009CA	DIODE	RGP15J,TP(52MM),GI	
		D703	0DD060009AC	DIODE	TVR06J 0.6A/600V 250NS	
		D707	0DD400309AD	DIODE	IN4003A RECT K-ROHM TP	
		D801	162-073A	DIODE	BRIDGE RBV-406	
		D802	0DD414809ED	DIODE	DS4148	
		D803	0DD414809ED	DIODE	DS4148	
		D804	0DD200009AN	DIODE	RG 2AV 1A/600V 100NS TP SANKEN	
		D807	0DD414809ED	DIODE	DS4148	
		D810	0DD410000AE	DIODE	RL4Z,LF-L1 SANKEN SANKEN	
		D811	0DD120000BB	DIODE	FML-G12S	
		D812	0DD120000BB	DIODE	FML-G12S	
		D813	0DD400000AF	DIODE	RU4C	
		D814	0DD414809ED	DIODE	DS4148	
		D901	0DD414809ED	DIODE	DS4148	
		D902	0DD414809ED	DIODE	DS4148	
		D903	0DD414809ED	DIODE	DS4148	
		D904	0DD414809ED	DIODE	DS4148	
		D905	0DD414809ED	DIODE	DS4148	
		D906	0DD414809ED	DIODE	DS4148	
		D907	0DD414809ED	DIODE	DS4148	
		D910	0DD400309AD	DIODE	IN4003A RECT K-ROHM TP	
		FR301	0RF0470H609	R,FUSIBLE	0.47 1/2W 5	
		FR651	0RF0470K607	R,FUSIBLE	0.47 2W 5%	
		FR701	0RF0470H609	R,FUSIBLE	0.47 1/2W 5	
		FR702	0RF0470J607	R,FUSIBLE	0.47 1W 5%	
		FR703	0RF0470J607	R,FUSIBLE	0.47 1W 5%	
		FR705	0RF0101K607	R,FUSIBLE	1 2W 5%	
		FR801	131-096D	FUSE	MICRO 125V 3.0A	
		FR802	0RF0470K607	R,FUSIBLE	0.47 2W 5%	
		FR901	0RF0471K666	RESISTOR FUSIBLE	4.7 2W 5 SF25	
		F801A	131-095A	FUSE	3.15A 250V TIME DELAY 5X20.HBC	
		IC01	01SM831801C	IC,SIEMENS	GS8318-01C(SDA20561-XXXX)40D	
		IC02	01XI240200B	IC, XICOR	X24C02P,8D,EEPROM(2K,CMOS)	
		IC03	01SM523120A	IC, SIEMENS	SDA5231-2,28D,TXT,DATA SLICER	
		IC04	01SM524851A	IC,SIEMENS	SDA5248-5C1 40D C/G(W-EUROPE)	
		IC05	01GS714256G	IC, GOLDSTAR ELECTRON	GM71C4256A-70 20D 256K*4 DRAM	
		IC06	01SM201600A	IC,SIEMENS	SDA20160-A022 40D TXT MICOM	
		IC07	01SM252658A	IC,SIEMENS	SDA2526-5 8D EEPROM(2K BIT)	
		IC101	01TF443900A	IC, TELEFUNKEN	TDA4439(TFK)	
		IC102	01PH385700A	IC, PHILIPS	TDA3857(SIF)	
		IC103	01GS358000A	IC, GOLDSTAR ELECTRON	GL358 DUAL OP-AMP	
		IC201	01GS381200A	IC, GOLDSTAR ELECTRON	GL3812(NA11518)	
		IC301	01PH835020A	IC,PHILIPS	TDA8350Q/V2 13SIP V/AMP+E/W	
		IC501	01PH468710A	IC,PHILIPS	TDA4687/V1 28D VIDEO PROCESSOR	
		IC502	01PH456620A	IC,PHILIPS	TDA4566/V2 18D CTI	
		IC503	01PH916020A	IC,PHILIPS	TDA9160A/N2 32SD P/N/S DECODER	
		IC504	01PH466120A	IC,PHILIPS	TDA4661/V2 16D 1H DELAY LINE	
		IC505	01GS780800A	IC, GOLDSTAR ELECTRON	GL7808 REGULATOR	
		IC506	167-115A	IC	GSH9311(GS-ALPS) 8PIN RGB BUF.	
		IC507	167-116A	IC	GSH9401(GS-ALPS)7PIN MODE S/W	

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MODEL : SCB28C22X BPGRG7 SET PART NO : 200-845A RUN-DATE : 94.03.08

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		IC601	0ISM661000A	IC, SIEMENS	TDA6610-2.28D.STEREO DECODER	
		IC602	0ISG282200A	IC.SGS-THOMSON	TDA2822M 8D DUAL AUDIO AMP(1W)	
		IC603	0ITD820000A	IC, TOSHIBA	TA8200AH 10W*2 PR I/B	
		IC801	0ISM460520A	IC.SIEMENS	TDA4605-2 8DIP SMPS CONTROLER	
		IC802	0ISH052100A	IC.SHARP	PQ05RF21 4P(TO-220) 5V S/W REG	
		IC901	0ISG510100A	IC.SGS-THOMSON	TEA5101A 15MULTIWATT VIDEO AMP	
		J04	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		J131	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		J215	ORD2700F609	R.CARBON FILM	270 1/6W 5	
		L01	OLA0221K119	INDUCTOR AXIAL LEAD	2.2UH K 2.3*3.4 TP	
		L101	OLA0152K119	INDUCTOR AXIAL LEAD	15UH K 2.3*3.4 TP	
		L102	ORD3300F609	R.CARBON FILM	330 1/6W 5	
		L103	OLA0821K119	INDUCTOR AXIAL LEAD	8.2UH K 2.3*3.4 TP	
		L104	OLA0681K119	INDUCTOR AXIAL LEAD	6.8UH K 2.3*3.4 TP	
		L141	OLA0152K119	INDUCTOR AXIAL LEAD	15UH K 2.3*3.4 TP	
		L142	OLA0182K119	INDUCTOR AXIAL LEAD	18UH K 2.3*3.4 TP	
		L143	OLA0152K119	INDUCTOR AXIAL LEAD	15UH K 2.3*3.4 TP	
		L182	ORD0101F609	R.CARBON FILM	1.0 1/6W 5	
		L185	OLA1200K119	INDUCTOR AXIAL LEAD	120UH K 2.3*3.4 TP	
		L186	OLA0102K119	INDUCTOR AXIAL LEAD	1OUH K 2.3*3.4 TP	
		L187	150-167D	COIL	CHOKE 1.0 UH	
		L202	125-022K	CORE	FERRITE 1UH	
		L254	OLA0392K119	INDUCTOR AXIAL LEAD	39UH K 2.3*3.4 TP	
		L255	OLA0392K119	INDUCTOR AXIAL LEAD	39UH K 2.3*3.4 TP	
		L256	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		L257	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		L263	OLA0102K119	INDUCTOR AXIAL LEAD	1OUH K 2.3*3.4 TP	
		L301	150-717J	COIL	CHOKE 560UH (E/W)	
		L402	125-022K	CORE	FERRITE 1UH	
		L403	150-159G	COIL	LINEARITY	
		L404	150-892A	COIL	CHOKE 8.2MH	
		L501	OLA0222K119	INDUCTOR AXIAL LEAD	22UH K 2.3*3.4 TP	
		L502	OLA0102K119	INDUCTOR AXIAL LEAD	1OUH K 2.3*3.4 TP	
		L51	OLA0152K119	INDUCTOR AXIAL LEAD	15UH K 2.3*3.4 TP	
		L52	OLA0102K119	INDUCTOR AXIAL LEAD	1OUH K 2.3*3.4 TP	
		L651	OLA0102K139	INDUCTOR AXIAL LEAD	1OUH K 4*10.5 TP	
		L652	OLA0102K139	INDUCTOR AXIAL LEAD	1OUH K 4*10.5 TP	
		L801	150-982C	COIL	LINE FILTER,23MH SQE	
		L804	150-235E	COIL	HOR.CHOKE 1MH(1A)	
		L805	150-235E	COIL	HOR.CHOKE 1MH(1A)	
		L806	150-235A	COIL	H-CHOKE (TLN-3006)	
		L810	125-123A	CORE	FERRITE BFD3565R2F	
		L811	125-123A	CORE	FERRITE BFD3565R2F	
		L812	125-123A	CORE	FERRITE BFD3565R2F	
		L813	125-123A	CORE	FERRITE BFD3565R2F	
		L901	OLA0102K139	INDUCTOR AXIAL LEAD	1OUH K 4*10.5 TP	
		L902	OLA0102K119	INDUCTOR AXIAL LEAD	1OUH K 2.3*3.4 TP	
		P265	106-048A	PRE-AMP	SBX-1677-02(38.0KHZ)	
		P267	380-068A	JACK	HEADPHONE,HSJ0914-01-110	
		P268	380-355A	JACK	MDJ-002-4PC	

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MODEL : SCB28C22X BPGRG7 SET PART NO : 200-845A RUN-DATE : 94.03.08

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		P269	380-336C	JACK	RCA WA6013A(RD)	
		P270	380-336A	JACK	RCA WA6013A WH	
		P271	380-336B	JACK	RCA WA6013A YL	
		P276	140-248D	SWITCH	TACT S/W 2P,SKHHNJ	
		P277	140-248D	SWITCH	TACT S/W 2P,SKHHNJ	
		P278	140-248D	SWITCH	TACT S/W 2P,SKHHNJ	
		P279	140-248D	SWITCH	TACT S/W 2P,SKHHNJ	
		P280	140-248D	SWITCH	TACT S/W 2P,SKHHNJ	
		P281	140-248D	SWITCH	TACT S/W 2P,SKHHNJ	
		P653	380-338A	JACK	EXTERNAL SPEAKER	
		P654	380-338A	JACK	EXTERNAL SPEAKER	
		Q05	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q08	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q09	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q10	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q101	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q102	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q11	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q12	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q201	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q202	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q204	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q205	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q252	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q253	0TR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC	
		Q254	0TR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC	
		Q255	0TR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC	
		Q301	0TR988000AC	TRANSISTOR	KTB988-Y,W/A(KTB834),KEC	
		Q401	0TR206800BA	TRANSISTOR	KTC2068,KEC	
		Q402	0TR487120AA	TRANSISTOR	ON4871(BU2508DF) PHILIPS	
		Q502	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q505	0TR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC	
		Q51	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q52	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q53	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q651	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q652	0TR126609AA	TRANSISTOR	KTA1266-TP-Y (KTA1015) KEC	
		Q802	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q803	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q805	0TR320509AB	TRANSISTOR	KTC3205-Y (KTC2236A) TP KEC	
		Q806	0TR205800BB	TRANSISTOR	KTD2058-GR(2SD2058),KEC	
		Q807	0TR205800BB	TRANSISTOR	KTD2058-GR(2SD2058),KEC	
		Q931	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		Q933	0TR319809AA	TRANSISTOR	KTC3198-TP-Y (KTC1815)KEC	
		RL802	141-013A	RELAY	HR-CR323DC5V(HANGUK)	
		R01	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R02	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R03	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R04	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R05	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R06	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R07	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R08	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R09	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R10	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R100	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R101	ORD3601F609	R.CARBON FILM	3.6K 1/6W 5	
		R102	ORD5101F609	R.CARBON FILM	5.1K 1/6W 5	
		R103	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R104	ORD2200F609	R.CARBON FILM	220 1/6W 5	
		R105	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R106	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R107	ORD3002F609	R.CARBON FILM	30K 1/6W 5	
		R108	ORD3002F609	R.CARBON FILM	30K 1/6W 5	
		R109	ORD1003F609	R.CARBON FILM	100K 1/6W 5	
		R11	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R110	ORD1003F609	R.CARBON FILM	100K 1/6W 5	
		R111	ORD0562F609	R.CARBON FILM	56 1/6W 5	
		R112	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R113	OCN1010K519	C.TUBULA(HIGH DIELE)	100PF 50V K	
		R116	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R117	ORD1501F609	R.CARBON FILM	1.5K 1/6W 5	
		R118	ORD0562F609	R.CARBON FILM	56 1/6W 5	
		R12	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R13	ORD8201F609	R.CARBON FILM	8.2K 1/6W 5	
		R14	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R141	ORD4300F609	R.CARBON FILM	430 1/6W 5	
		R142	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R144	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R145	ORD4300F609	R.CARBON FILM	430 1/6W 5	
		R146	ORD5600F609	R.CARBON FILM	560 1/6W 5	
		R147	ORD5600F609	R.CARBON FILM	560 1/6W 5	
		R15	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R153	ORD1102F609	R.CARBON FILM	11K 1/6W 5	
		R154	ORD1102F609	R.CARBON FILM	11K 1/6W 5	
		R155	ORD1102F609	R.CARBON FILM	11K 1/6W 5	
		R156	ORD1102F609	R.CARBON FILM	11K 1/6W 5	
		R157	ORD0102F609	RESISTOR.FIXED CARBON FILM	10 1/6W 5 TA52	
		R16	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R17	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R181	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R182	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R201	ORD3002F609	R.CARBON FILM	30K 1/6W 5	
		R202	ORD3002F609	R.CARBON FILM	30K 1/6W 5	
		R203	ORD3002F609	R.CARBON FILM	30K 1/6W 5	
		R204	ORD3002F609	R.CARBON FILM	30K 1/6W 5	
		R205	ORD3002F609	R.CARBON FILM	30K 1/6W 5	
		R206	ORD3002F609	R.CARBON FILM	30K 1/6W 5	
		R207	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R208	ORD0102F609	RESISTOR.FIXED CARBON FILM	10 1/6W 5 TA52	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R209	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R210	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R211	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		R213	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R214	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R215	ORD0102F609	RESISTOR.FIXED CARBON FILM	10 1/6W 5 TA52	
		R216	ORD5602F609	R.CARBON FILM	56K 1/6W 5	
		R217	ORD2203F609	R.CARBON FILM	220K 1/6W 5	
		R218	ORD5602F609	R.CARBON FILM	56K 1/6W 5	
		R219	ORD2203F609	R.CARBON FILM	220K 1/6W 5	
		R220	ORD0562F609	R.CARBON FILM	56 1/6W 5	
		R221	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R222	ORD0562F609	R.CARBON FILM	56 1/6W 5	
		R223	ORD3300F609	R.CARBON FILM	330 1/6W 5	
		R224	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R225	ORD5600H609	R.CARBON FILM	560 1/2W 5	
		R226	ORD3300F609	R.CARBON FILM	330 1/6W 5	
		R229	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R230	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R231	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R232	ORD2203F609	R.CARBON FILM	220K 1/6W 5	
		R233	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R234	ORD2203F609	R.CARBON FILM	220K 1/6W 5	
		R235	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R236	ORD2203F609	R.CARBON FILM	220K 1/6W 5	
		R237	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R238	ORD2203F609	R.CARBON FILM	220K 1/6W 5	
		R239	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R240	ORD3001F609	R.CARBON FILM	3.0K 1/6W 5	
		R241	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R242	ORD2702F609	R.CARBON FILM	27K 1/6W 5	
		R243	ORD3302F609	R.CARBON FILM	33K 1/6W 5	
		R244	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R245	ORD0562F609	R.CARBON FILM	56 1/6W 5	
		R246	OLA0102K119	INDUCTOR AXIAL LEAD	10UH K 2.3*3.4 TP	
		R247	OLA0102K119	INDUCTOR AXIAL LEAD	10UH K 2.3*3.4 TP	
		R248	OLA0102K119	INDUCTOR AXIAL LEAD	10UH K 2.3*3.4 TP	
		R249	OLA0102K119	INDUCTOR AXIAL LEAD	10UH K 2.3*3.4 TP	
		R250	OLA0102K119	INDUCTOR AXIAL LEAD	10UH K 2.3*3.4 TP	
		R252	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R253	OLA0102K119	INDUCTOR AXIAL LEAD	10UH K 2.3*3.4 TP	
		R254	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R255	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R256	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R257	ORD2200F609	R.CARBON FILM	220 1/6W 5	
		R263	OLA0102K119	INDUCTOR AXIAL LEAD	10UH K 2.3*3.4 TP	
		R264	OLA0102K119	INDUCTOR AXIAL LEAD	10UH K 2.3*3.4 TP	
		R268	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R269	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R272	ORD0752F609	R.CARBON FILM	75 1/6W 5	

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S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R28	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		R29	ORD2402F609	R.CARBON FILM	24K 1/6W 5	
		R301	ORN3001F409	RESISTOR.FIX METAL FILM	3K 1/6W 1% TA52	
		R302	ORN0680J607	RESISTOR.FIX METAL FILM	0.68 1W 5% TA62	
		R304	ORD0102H609	R.CARBON FILM	10 1/2W 5	
		R306	ORD6202F609	R.CARBON FILM	62K 1/6W 5	
		R307	ORS2200J607	R.METAL FILM OXIDE	220 1W 5%	
		R308	ORS0332L667	RESISTOR.FIX METAL FILM OXIDE	33 3W 5 SF30	
		R309	ORD5101F609	R.CARBON FILM	5.1K 1/6W 5	
		R31	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		R310	ORD0221H609	R.CARBON FILM	2.2 1/2W 5	
		R311	ORD0221H609	R.CARBON FILM	2.2 1/2W 5	
		R34	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R36	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R37	ORD2001F609	R.CARBON FILM	2.0K 1/6W 5	
		R39	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		R401	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R402	180-830C	RESISTOR	RSR 5W 6.8K OHM 5% PD	
		R403	ORS6801J607	R.METAL FILM OXIDE	6.80K 1W 5%	
		R404	ORD0472H609	R.CARBON FILM	47 1/2W 5	
		R405	ORS1201J607	R.METAL FILM OXIDE	1.20K 1W 5%	
		R406	ORS1000J607	RESISTOR.FIX METAL FILM OXIDE	100 1W 5% TA62	
		R407	ORS1502L667	R.METAL FILM OXIDE	15K 3W 5	
		R41	ORD2401F609	R.CARBON FILM	2.4K 1/6W 5	
		R42	ORD2401F609	R.CARBON FILM	2.4K 1/6W 5	
		R43	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R45	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		R47	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R48	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R49	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R501	ORD3901F609	R.CARBON FILM	3.9K 1/6W 5	
		R502	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R503	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R504	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R506	ORD1101F609	R.CARBON FILM	1.1K 1/6W 5	
		R507	ORD1101F609	R.CARBON FILM	1.1K 1/6W 5	
		R508	ORD1101F609	R.CARBON FILM	1.1K 1/6W 5	
		R509	ORD3901F609	R.CARBON FILM	3.9K 1/6W 5	
		R51	ORD3301F609	R.CARBON FILM	3.3K 1/6W 5	
		R510	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R511	ORD3302F609	R.CARBON FILM	33K 1/6W 5	
		R512	ORD3302F609	R.CARBON FILM	33K 1/6W 5	
		R513	ORD5600F609	R.CARBON FILM	560 1/6W 5	
		R514	ORD1103F609	R.CARBON FILM	110K 1/6W 5	
		R516	ORD8202F609	R.CARBON FILM	82K 1/6W 5	
		R517	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R518	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R519	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R52	ORD2701F609	R.CARBON FILM	2.7K 1/6W 5	
		R520	ORD1000F609	R.CARBON FILM	100 1/6W 5	

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S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R521	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R522	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R523	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R524	ORD0101F609	R.CARBON FILM	1.0 1/6W 5	
		R525	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R526	ORD1802F609	R.CARBON FILM	18K 1/6W 5	
		R527	ORD1203F609	R.CARBON FILM	120K 1/6W 5	
		R53	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R537	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R538	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R54	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R540	ORD2401F609	R.CARBON FILM	2.4K 1/6W 5	
		R541	ORD2702F609	R.CARBON FILM	27K 1/6W 5	
		R545	ORN3902F409	RESISTOR.FIX METAL FILM	39K 1/6W 1% TA52	
		R546	ORD1003F609	R.CARBON FILM	100K 1/6W 5	
		R547	ORD3903F609	R.CARBON FILM	390K 1/6W 5	
		R55	ORD3301F609	R.CARBON FILM	3.3K 1/6W 5	
		R550	ORD8201F609	R.CARBON FILM	8.2K 1/6W 5	
		R551	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		R553	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		R554	ORD1003F609	R.CARBON FILM	100K 1/6W 5	
		R555	ORD0102F609	RESISTOR.FIXED CARBON FILM	10 1/6W 5 TA52	
		R556	ORD0102F609	RESISTOR.FIXED CARBON FILM	10 1/6W 5 TA52	
		R557	ORD6800F609	R.CARBON FILM	680 1/6W 5	
		R558	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R559	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R56	ORD2701F609	R.CARBON FILM	2.7K 1/6W 5	
		R560	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R561	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R563	ORD1500F609	R.CARBON FILM	150 1/6W 5	
		R564	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R565	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R566	ORD2700F609	R.CARBON FILM	270 1/6W 5	
		R568	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R57	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R58	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R59	ORD3301F609	R.CARBON FILM	3.3K 1/6W 5	
		R60	ORD2701F609	R.CARBON FILM	2.7K 1/6W 5	
		R601	ORD4702F609	R.CARBON FILM	47K 1/6W 5	
		R602	ORD1501F609	R.CARBON FILM	1.5K 1/6W 5	
		R61	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R613	ORD0101F609	R.CARBON FILM	1.0 1/6W 5	
		R614	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R615	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R616	ORD1003F609	R.CARBON FILM	100K 1/6W 5	
		R617	ORD3301F609	R.CARBON FILM	3.3K 1/6W 5	
		R618	ORD5602F609	R.CARBON FILM	56K 1/6W 5	
		R62	ORD0752F609	R.CARBON FILM	75 1/6W 5	
		R63	ORD1801F609	R.CARBON FILM	1.8K 1/6W 5	
		R631	ORD2401F609	R.CARBON FILM	2.4K 1/6W 5	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R633	ORD0102H609	R.CARBON FILM	10 1/2W 5	
		R634	ORD2401F609	R.CARBON FILM	2.4K 1/6W 5	
		R636	ORD2200F609	R.CARBON FILM	220 1/6W 5	
		R637	ORD6200F609	R.CARBON FILM	620 1/6W 5	
		R638	ORD2001F609	R.CARBON FILM	2.0K 1/6W 5	
		R639	ORD6200F609	R.CARBON FILM	620 1/6W 5	
		R64	ORD9101F609	R.CARBON FILM	9.1K 1/6W 5	
		R640	ORD2001F609	R.CARBON FILM	2.0K 1/6W 5	
		R641	ORD2200F609	R.CARBON FILM	220 1/6W 5	
		R65	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R651	ORD3900F609	R.CARBON FILM	390 1/6W 5	
		R652	ORD0332H609	R.CARBON FILM	33 1/2W 5	
		R652	ORD2702F609	R.CARBON FILM	27K 1/6W 5	
		R653	ORD2002F609	R.CARBON FILM	20K 1/6W 5	
		R654	ORD2702F609	R.CARBON FILM	27K 1/6W 5	
		R655	ORD0332H609	R.CARBON FILM	33 1/2W 5	
		R655	ORD2002F609	R.CARBON FILM	20K 1/6W 5	
		R656	ORD3900F609	R.CARBON FILM	390 1/6W 5	
		R657	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R658	ORD2002F609	R.CARBON FILM	20K 1/6W 5	
		R659	ORD6802F609	R.CARBON FILM	68K 1/6W 5	
		R66	ORD0822F609	R.CARBON FILM	82 1/6W 5	
		R660	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R661	ORD1500F609	R.CARBON FILM	150 1/6W 5	
		R663	ORD0221H609	R.CARBON FILM	2.2 1/2W 5	
		R664	ORD0221H609	R.CARBON FILM	2.2 1/2W 5	
		R67	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R68	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R69	ORD0101F609	R.CARBON FILM	1.0 1/6W 5	
		R701	ORD1001H609	R.CARBON FILM	1.0K 1/2W 5	
		R702	ORD9101F609	R.CARBON FILM	9.1K 1/6W 5	
		R703	ORD3901F609	R.CARBON FILM	3.9K 1/6W 5	
		R704	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R705	ORS2702J607	RESISTOR.FIX METAL FILM OXIDE	27K 1W 5% TA62	
		R706	ORD1801H609	R.CARBON FILM	1.8K 1/2W 5	
		R707	ORS5601J607	RESISTOR.FIX METAL FILM OXIDE	5.60K 1W 5% TA62	
		R709	ORD7501H609	RESISTOR.FIXED CARBON FILM	7.5K 1/2W 5 TA52	
		R71	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R710	ORD6801H609	RESISTOR.FIXED CARBON FILM	6.8K 1/2W 5 TA52	
		R73	ORD0101F609	R.CARBON FILM	1.0 1/6W 5	
		R74	ORD3300F609	R.CARBON FILM	330 1/6W 5	
		R75	ORD5602F609	R.CARBON FILM	56K 1/6W 5	
		R76	ORD0101F609	R.CARBON FILM	1.0 1/6W 5	
		R77	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R78	ORD4700F609	R.CARBON FILM	470 1/6W 5	
		R79	ORD1801F609	R.CARBON FILM	1.8K 1/6W 5	
		R80	ORD0102F609	RESISTOR.FIXED CARBON FILM	10 1/6W 5 TA52	
		R802	180-344M	RESISTOR CEMENT PWR	2.2J 7W	
		R803	ORD3303H609	R.CARBON FILM	330K 1/2W 5	
		R804	180-830H	RESISTOR	RSR 5W 22K 5% PD	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R805	ORD3303H609	R.CARBON FILM	330K 1/2W 5	
		R806	ORD5601G509	R.CARBON FILM	5.6K 1/4W 2	
		R807	ORD2200G509	RESISTOR.FIXED CARBON FILM	220 1/4W 2 TA52	
		R808	ORD1803H609	R.CARBON FILM	180K 1/2W 5	
		R809	ORD1203H609	R.CARBON FILM	120K 1/2W 5	
		R81	ORD1801F609	R.CARBON FILM	1.8K 1/6W 5	
		R810	ORD5101G509	RESISTOR.FIXED CARBON FILM	5.1K 1/4W 2 TA52	
		R811	ORD6803H609	R.CARBON FILM	680K 1/2W 5	
		R812	ORD1303H609	R.CARBON FILM	130K 1/2W 5	
		R813	ORD0102F609	RESISTOR.FIXED CARBON FILM	10 1/6W 5 TA52	
		R814	ORD1002G509	RESISTOR.FIXED CARBON FILM	10K 1/4W 2 TA52	
		R815	ORD1200H609	R.CARBON FILM	120 1/2W 5	
		R816	ORD1500H609	R.CARBON FILM	150 1/2W 5	
		R817	ORD0472G509	RESISTOR.FIXED CARBON FILM	47 1/4W 2 TA52	
		R818	180-850H	RESISTOR	RSR 5W 22K 5% PD	
		R82	ORD1501F609	R.CARBON FILM	1.5K 1/6W 5	
		R822	ORD2202F609	R.CARBON FILM	22K 1/6W 5	
		R828	ORD0821H609	RESISTOR.FIXED CARBON FILM	8.2 1/2W 5 TA52	
		R829	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R83	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R830	ORD2701G509	RESISTOR.FIXED CARBON FILM	2.7K 1/4W 2 TA52	
		R831	ORD5600H609	R.CARBON FILM	560 1/2W 5	
		R832	ORD1800H609	RESISTOR.FIXED CARBON FILM	180 1/2W 5 TA52	
		R833	ORS4702J607	RESISTOR.FIX METAL FILM OXIDE	47K 1W 5% TA62	
		R839	ORD1202F609	R.CARBON FILM	12K 1/6W 5	
		R84	ORD1501F609	R.CARBON FILM	1.5K 1/6W 5	
		R840	180-783G	RESISTOR	RC 1/2W 825 F TAPING	
		R841	ORD2202F609	R.CARBON FILM	22K 1/6W 5	
		R842	ORD1001F609	R.CARBON FILM	1.0K 1/6W 5	
		R843	ORD2201F609	R.CARBON FILM	2.2K 1/6W 5	
		R844	ORD1002F609	R.CARBON FILM	10K 1/6W 5	
		R845	ORD7501F609	R.CARBON FILM	7.5K 1/6W 5	
		R85	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R86	ORD1501F609	R.CARBON FILM	1.5K 1/6W 5	
		R87	ORD1201F609	R.CARBON FILM	1.2K 1/6W 5	
		R88	ORD2201F609	R.CARBON FILM	2.2K 1/6W 5	
		R89	ORD2201F609	R.CARBON FILM	2.2K 1/6W 5	
		R90	ORD2201F609	R.CARBON FILM	2.2K 1/6W 5	
		R902	ORD5600G609	RESISTOR.FIXED CARBON FILM	560 1/4W 5 TA52	
		R903	ORD2201G609	R.CARBON FILM	2.2K 1/4W 5	
		R904	ORD3300G609	R.CARBON FILM	330 1/4W 5	
		R905	ORD4701G609	R.CARBON FILM	4.7K 1/4W 5	
		R906	ORS5602K607	R.METAL FILM OXIDE	56K 2W 5%	
		R907	ORD1001H609	R.CARBON FILM	1.0K 1/2W 5	
		R909	ORD1500G609	R.CARBON FILM	150 1/4W 5	
		R91	ORD0102F609	RESISTOR.FIXED CARBON FILM	10 1/6W 5 TA52	
		R912	ORD5600G609	RESISTOR.FIXED CARBON FILM	560 1/4W 5 TA52	
		R913	ORD2201G609	R.CARBON FILM	2.2K 1/4W 5	
		R914	ORD3300G609	R.CARBON FILM	330 1/4W 5	
		R915	ORD4701G609	R.CARBON FILM	4.7K 1/4W 5	

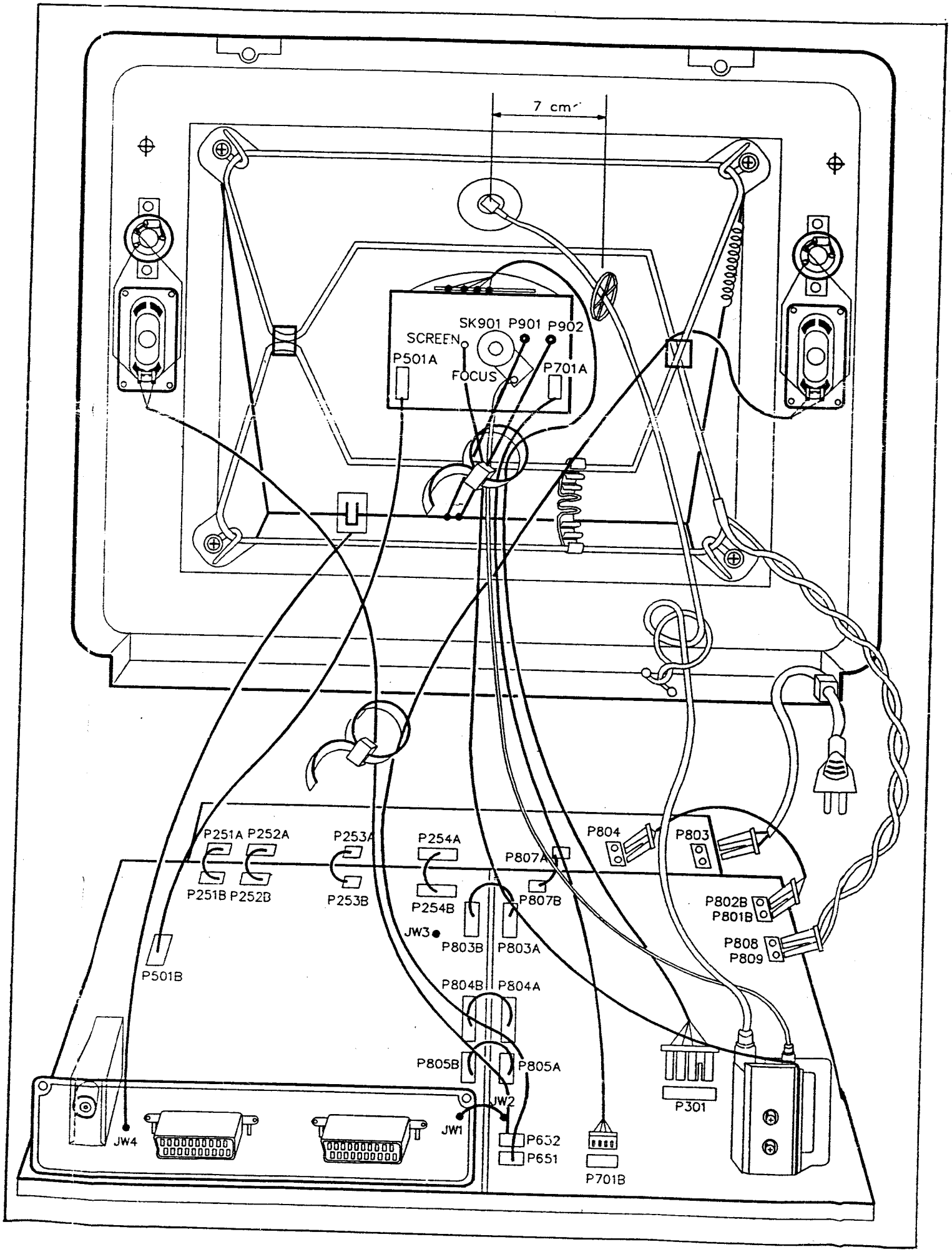
MODEL : SCB28C22X BPGRG7 SET PART NO : 200-845A RUN-DATE : 94.03.08

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		R916	ORS5602K607	R.METAL FILM OXIDE	56K 2W 5%	
		R917	ORD1001H609	R.CARBON FILM	1.0K 1/2W 5	
		R919	ORD1500G609	R.CARBON FILM	150 1/4W 5	
		R92	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R922	ORD5600G609	RESISTOR.FIXED CARBON FILM	560 1/4W 5 TA52	
		R923	ORD2201G609	R.CARBON FILM	2.2K 1/4W 5	
		R924	ORD3300G609	R.CARBON FILM	330 1/4W 5	
		R925	ORD4701G609	R.CARBON FILM	4.7K 1/4W 5	
		R926	ORS5602K607	R.METAL FILM OXIDE	56K 2W 5%	
		R927	ORD1001H609	R.CARBON FILM	1.0K 1/2W 5	
		R929	ORD1500G609	R.CARBON FILM	150 1/4W 5	
		R93	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R931	ORD1500H609	R.CARBON FILM	150 1/2W 5	
		R933	ORD1002G609	R.CARBON FILM	10K 1/4W 5	
		R939	ORD1002G609	R.CARBON FILM	10K 1/4W 5	
		R94	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		R940	ORD2203H609	R.CARBON FILM	220K 1/2W 5	
		R941	ORD2204H609	RESISTOR.FIXED CARBON FILM	2.2M 1/2W 5 TA52	
		R95	ORD0101F609	R.CARBON FILM	1.0 1/6W 5	
		R96	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R97	ORD4701F609	R.CARBON FILM	4.7K 1/6W 5	
		R98	ORD8201F609	R.CARBON FILM	8.2K 1/6W 5	
		R99	ORD1000F609	R.CARBON FILM	100 1/6W 5	
		SK101	381-091A	SOCKET	SCART JACK 21PIN	
		SK102	381-091A	SOCKET	SCART JACK 21PIN	
		SK901	381-094D	SOCKET	CPT PCS-627(HIGH FOCUS)	
		SW801A	140-278C	SWITCH	MAIN.MESC(IV-5)	
		TH801	163-051A	THERMISTOR	J5 03 P5 3D 140M 290S	
		TU01	113-234B	TUNER	TUPE9C07DF	
		T401	151-386A	TRANSFORMER	H.DRIVE 19Y4BY	
		T701	154-374B	FBT	KFS-61189(DUGO) 28" PHILIPS	
		T801	151-589A	TRANSFORMER	SMPS(4605-2)PC338(N/R)	
		VL101	150-813M	COIL	IFT(7MM)38.9MHZ.33PF	
		VL102	150-813Q	COIL	IFT(7MM)38.9MHZ.68PF	
		VL141	150-540R	COIL	IF DEMO 39.5MHZ	
		VL601	150-214S	COIL	TUNING	
		VR101	180-451G	R.VARIABLE	EVN-DJAA03 B502 HORIZONTAL<TA>	
		VR141	180-451G	R.VARIABLE	EVN-DJAA03 B502 HORIZONTAL<TA>	
		VR801	180-451D	RESISTOR	EVN-DJAA03 B102 HORIZONTAL<TA>	
		X01	156-025F	OSCILLATOR	12.000MHZ(S/C:16P)	
		X501	156-001B	CRYSTAL	4.433619MHZ(00384)PHILIPS	
		X502	156-001C	OSCILLATOR	CRYSTAL 3.58MHZ	
		X51	156-007D	OSCILLATOR	OSC.X-TAL 13.875MHZ	
		X52	156-007C	OSCILLATOR	OSC.X-TAL 6.0MHZ	
		X53	156-025F	OSCILLATOR	12.000MHZ(S/C:16P)	
		ZD304	0DZ330009CA	DIODE ZENER	MTZ 33B.TP(52MM).ROHM	
		ZD306	0DZ240009BB	DIODE ZENER	MTZ24B.TP(52MM).ROHM	
		ZD307	0DZ240009BB	DIODE ZENER	MTZ24B.TP(52MM).ROHM	
		ZD505	0DZ820009AA	DIODE ZENER	MTZ8.2B TP ROHM-K	
		ZD510	0DZ510009AB	DIODE ZENER	MTZ5.1B.TP(52MM).ROHM	

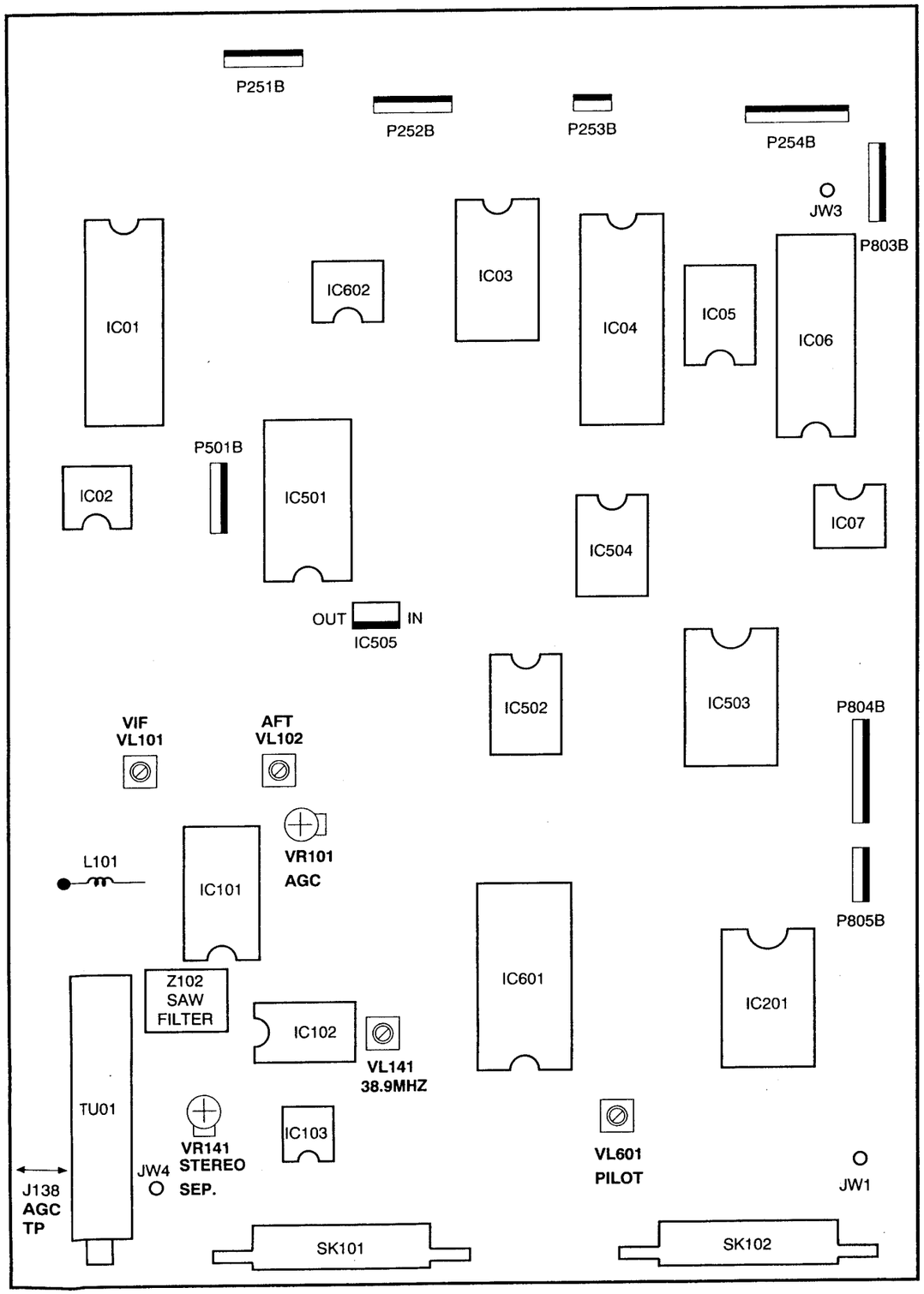
MODEL : SCB28C22X BPGRG7 SET PART NO : 200-845A RUN-DATE : 94.03.08

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		ZD704	0DZ330009CA	DIODE ZENER	MTZ 33B.TP(52MM).ROHM	
		ZD705	0DZ750009AA	DIODE ZENER	MTZ7.5B.TP(52MM).ROHM	
		ZD708	0DZ820009DA	DIODE.ZENER	MTZ8.2C 0.5W(52MM)TP TP ROHM N	
		ZD808	0DZ560009AA	DIODE ZENER	MTZ5.6B.TP(52MM).ROHM	
		ZD809	0DZ122009BA	DIODE ZENER	NZ-12(B)T2	
		ZD901	0DZ910009BA	DIODE ZENER	MTZ9.1B.TP(52MM).ROHM	
		Z101	166-031L	FILTER	TPS 5.5MB-TF21(TA)	
		Z102	166-244F	FILTER	OFW G3255 (SIEMENS)	
		Z141	166-248A	FILTER	SFI5.5MA	
		Z142	166-248B	FILTER	SFI5.74MA	
		Z143	166-298A	FILTER	COSH5.5ME54K-TF21	
		Z144	166-298B	FILTER	COSH5.74ME54K-TF21	
				*** END OF DATA ***		

Wiring Diagram



Alignment/Test Point Location Guide (MAIN BOARD)



■ Alignment procedures

1. It is safe to adjust after using insulating transformer between the power supply line and chassis input to prevent the risk of electric shock and protect the instrument.
2. Never disconnect leads while the TV receiver is on.
3. Don't short any portion of circuits while power is on.
4. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.
5. Unless other-wise noted, set the line voltage to 230V±10%, 50hz.

■ Test Equipment required

1. VIF sweep generator
2. Color bar/cross-hatch pattern generator
3. DC power supply (24V) X 2
4. Digital multi-meter
5. Oscilloscope

Preparation for VIF & AFT Adjustment

1. Connect the measuring equipment to the TV as shown in Fig. 1
2. Set RF output level of Sweep S.G (Signal Generator) to 100dBu.
3. Set Alignment Scope, Volts/Div to 100mV (VIF) or 1V (AFT), AC/DC switch to AC, Line/Ext switch to Ext.

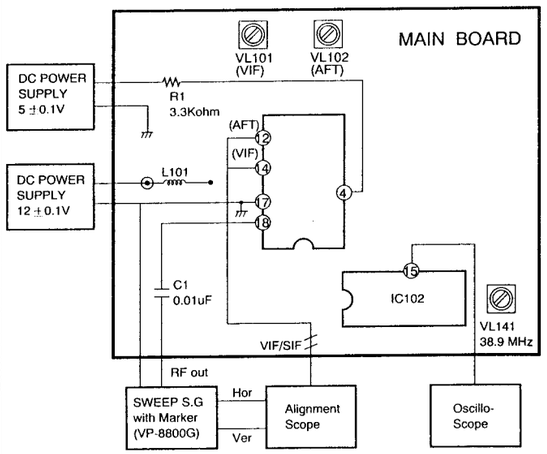


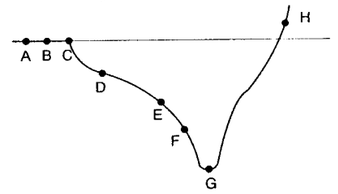
Fig. 1: Connection Diagram of Equipment for VIF & AFT Adjustment

● VIF (Video Intermediate Frequency) Adjustment

Test Point : PIN 14 of IC101

Adjust : VL101

1) Turn on DC power supplies.
2) Adjust Video Detector Coil **(VL101)** so that the level of vision carrier (Marker G) may be at the lowest position as shown Fig. 2.



A : 31.9 MHZ
B : 33.4 MHZ
C : 33.97 MHZ
D : 34.47 MHZ
E : 35.22 MHZ
F : 38.15 MHZ
G : 38.9 MHZ
H : 40.4 MHZ

Fig. 2 : VIF waveform on Alignment Scope

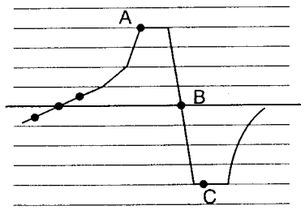
● AFT (Auto Fine Tuning) Adjustment

NOTE : This adjustment should be performed after adjusting IF AGC voltage exactly. (5.0±0.1V)

Test Point : PIN12 of IC101

Adjust : VL102

1) Turn on DC power supplies.
2) Adjust IF AFT coil **(VL102)** so that 38.9 Mhz (Vc) point will be center as below Fig. 3



A : 38.15
B : 38.9
C : 40.4

Fig. 3 : AFT waveform on Alignment Scope

● Regulated B+ Adjustment

NOTE : This adjustment should be performed after warming up for 10 minutes.

Test Point : J701

Adjust : VR801

1) Tune the TV set to receive a broadcast signal.
2) Set contrast to 47%, brightness and color to 31% position.
3) Connect DC voltmeter to a **J701**.
4) Adjust **VR801** for 155V±0.2Vdc.

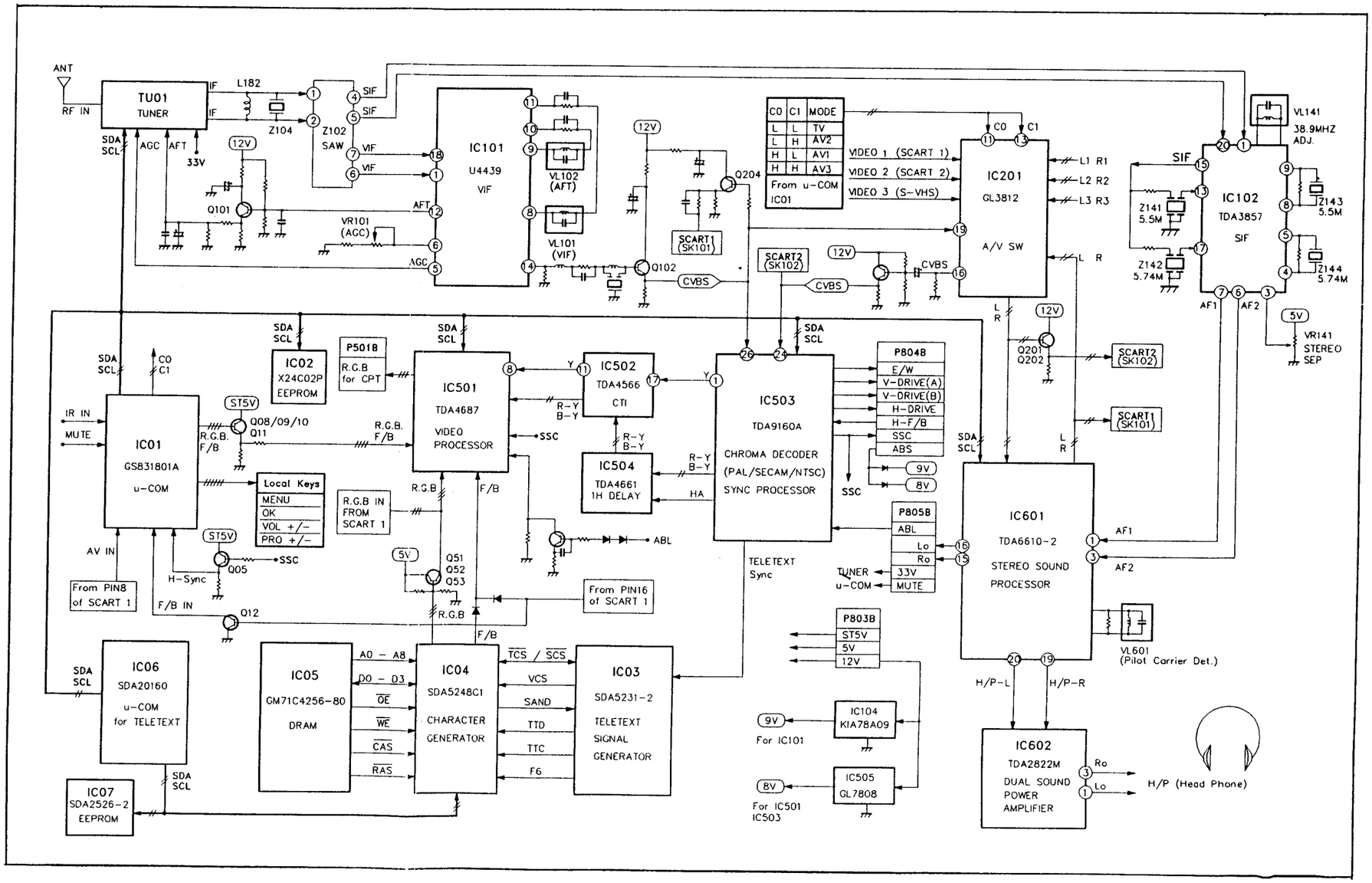
Table 1: Corresponding buttons for each adjustment

Button	OSD	Adjustment	Reference
6	**VL --**	Vertical Linearity	
9	**VS --**	Vertical Shift	
7	**VH --**	Vertical Height	
8	**SC --**	Vertical "S" Compensation	Receive cross hatch pattern.
1	**HS --**	Horizontal Shift	
2	**EW --**	Horizontal Width	
3	**EP --**	East-West Parabolar	Receive cross hatch pattern.
4	**EC --**	East-West Corner	Receive cross hatch pattern.
5	**ET --**	East-West Trapezium	Receive cross hatch pattern.
TXT/M	**PL--**	Peak Limit	, Set to PL45
SIZE	**GG--**	White Balance	, Set to GG31
Reveal	**RG--**		
UPDATE	**BG--**		

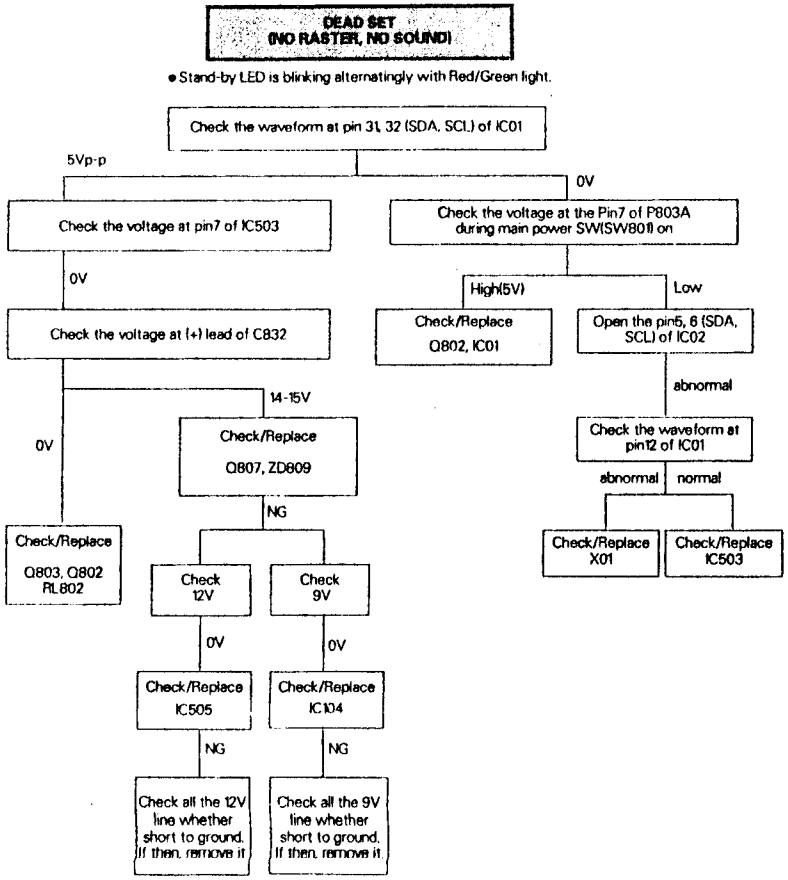
Ref) "--" of OSD column means variable number, for example 35, from 00 to 63.

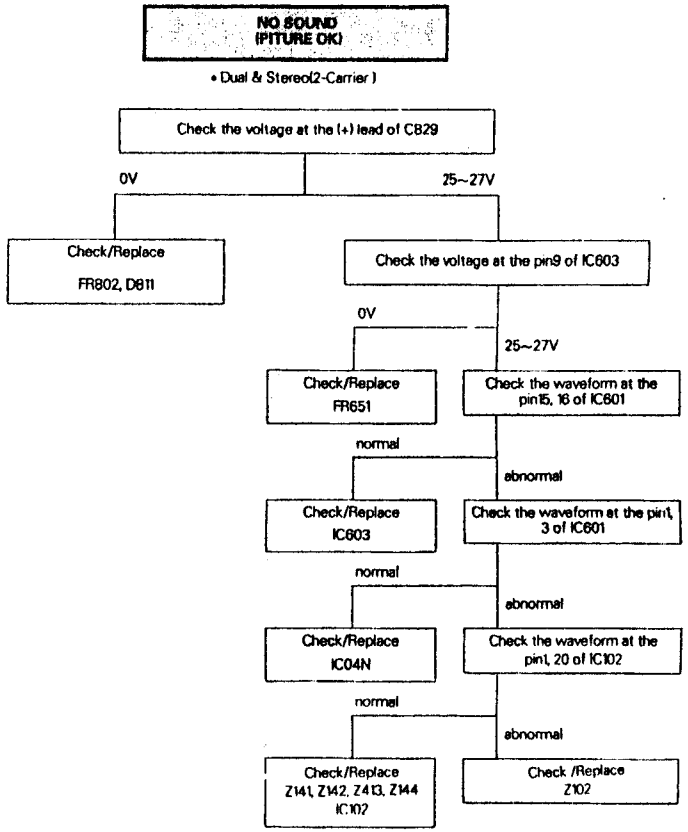
NOTE : These adjustments are possible only with serviceable remote controller installed SVC button.

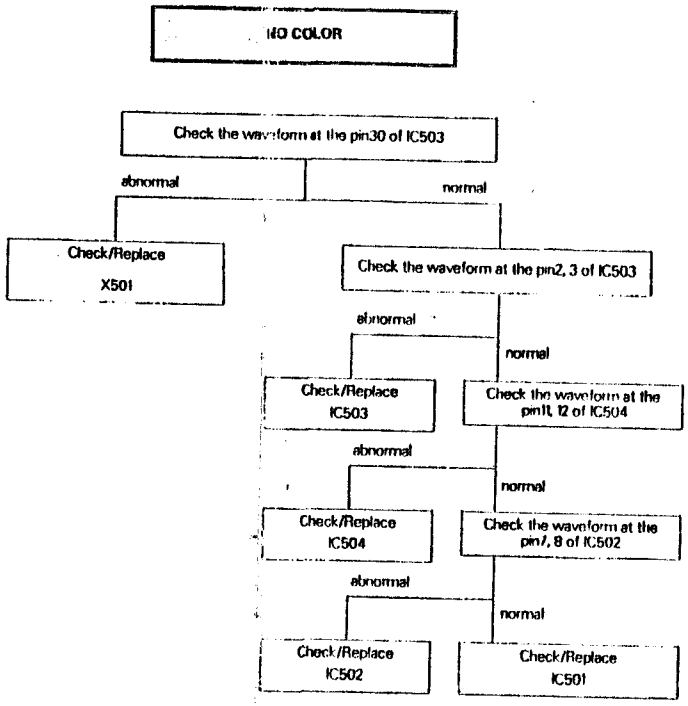
Block Diagram (MAIN BOARD)

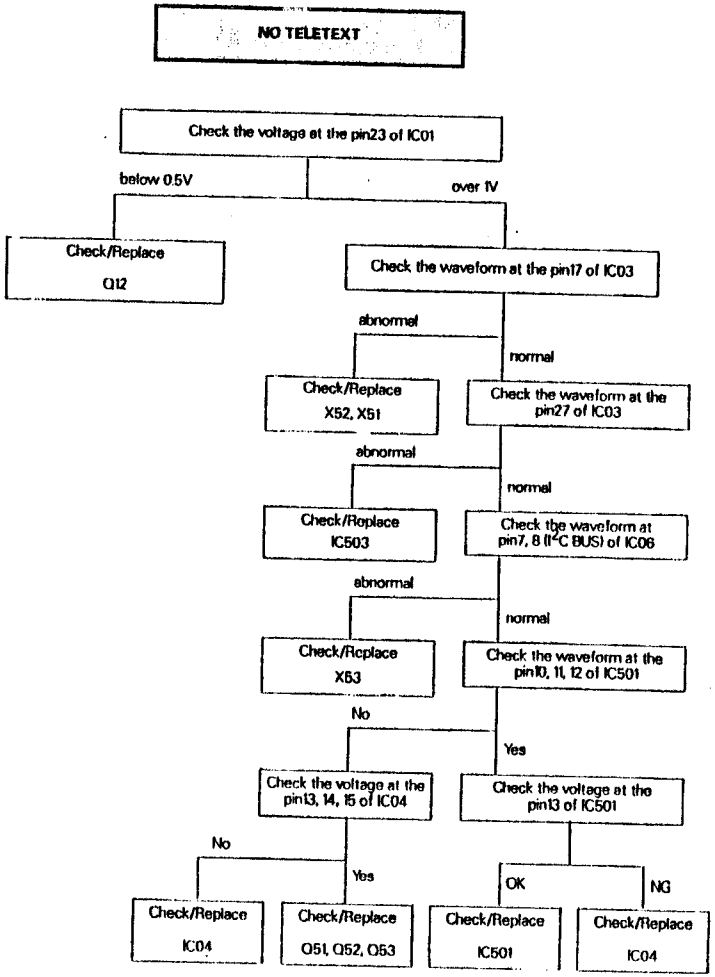


■ Troubleshooting Guide



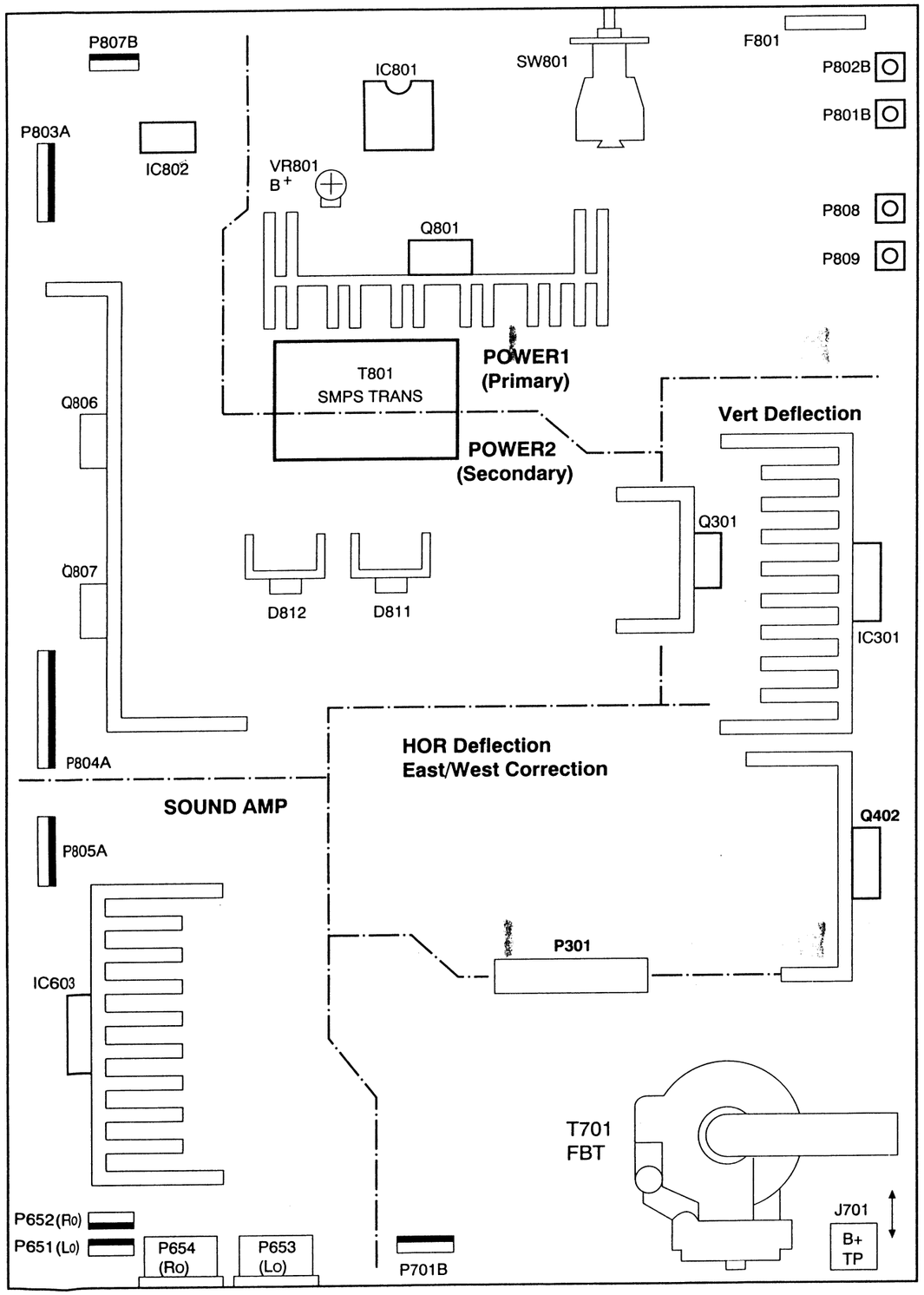



NO COLOR
Check the waveform at the pin30 of IC503
abnormal
normal
Check/Replace X501
Check the waveform at the pin2, 3 of IC503
abnormal
normal
Check/Replace IC503
Check the waveform at the pin11, 12 of IC504
abnormal
normal
Check/Replace IC504
Check the waveform at the pin7, 8 of IC502
abnormal
normal
Check/Replace IC502
Check/Replace IC501


NO TELETEXT
Check the voltage at the pin23 of IC01
below 0.5V
over 1V
Check/Replace Q12
Check the waveform at the pin17 of IC03
abnormal
normal
Check/Replace X52, X51
Check the waveform at the pin27 of IC03
abnormal
normal
Check/Replace IC503
Check the waveform at pin7, 8 (I²C BUS) of IC06
abnormal
normal
Check/Replace X53
Check the waveform at the pin10, 11, 12 of IC501
No
Yes
Check the voltage at the pin13, 14, 15 of IC04
Check the voltage at the pin13 of IC501
No
Yes
OK
NG
Check/Replace IC04
Check/Replace Q51, Q52, Q53
Check/Replace IC501
Check/Replace IC04

Alignment/Test Point Location Guide

(POWER & DEFLECTION & SOUND AMP BOARD)



● RF AGC (Auto Gain Control) Adjustment

Test Point : J138 or Observing Display

Adjust : VR101

The RF AGC control **(VR101)** was aligned at the time of manufacture for optimum performance over a wide range conditions. Readjust of VR101 should not be necessary unless unusual local conditions exist, such as :

1) Channel interference in a CATV system.
2) Picture bending and/or color beats, which are unusually due to excessive RF signal input when the receiver is too close to a transmitting tower or when the receiver is connected to an antenna distribution system where the RF signal has been amplified.
   In this case, the input signal should be attenuated (with pad or filter) to a satisfactory level.
3) Picture noise caused by "broadcast noise" or weak signal.
   If the broadcast is "clean" and the RF signal is at least 1mV (60dBu), the picture will be noise free in any area.

Adjusting the VR101 (RF AGC) control to one end of rotation will usually cause a relatively poor signal to noise ratio;
Adjusting to the other end of rotation will usually cause a degradation of over load capabilities resulting in color beats or adjacent channel reference.
For best results, adjust the VR101 control while performing on all over local channels, or the voltage at **J138** will be **6.0±0.1Vdc**.

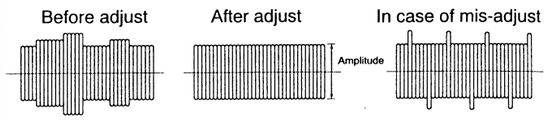
● 38.9 MHZ Adjustment

Test Point : PIN15 of IC102

Adjust : VL141

Set oscilloscope Sec/Div to 0.5mS, Volts/Div to 50mV.

1) Tune the TV set to receive cross-hatch pattern comprised of 1KHZ sound signal.
2) Connect oscilloscope to the **PIN15 of IC102** as shown in Fig. 1.
3) Adjust **VL141** so that the amplitude of signal may be flat and minimum.



● Pilot Carrier Detection Adjustment

Test Point : PIN5 of IC601

Adjust : VL601

1) Tune the TV set to receive a broadcast signal with stereo sound signal.
2) Connect probe of oscilloscope to the **PIN5 of IC601**.
3) Adjust Pilot Carrier Detector Coil **(VL601)** for maximum amplitude.

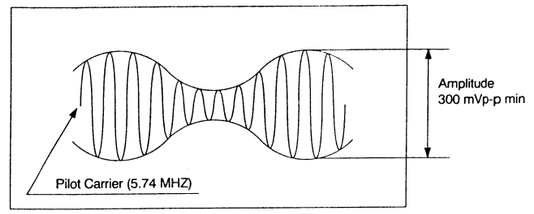


Fig. 4 : Pilot Carrier Waveform

● Stereo Separation Adjustment

Test Point : PIN16 of IC601

Adjust : VR141

1) Tune the TV set to receive a broadcast signal with stereo sound signal.
2) Set sound volume control to 35% position.
3) Connect prove of oscilloscope to a **PIN16 of IC601**.
4) Adjust Variable Resistor **VR141** for flat amplitude.

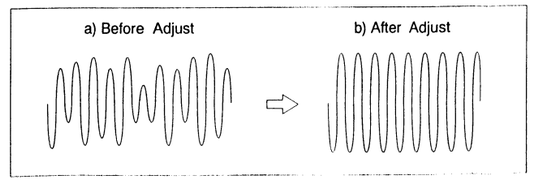


Fig. 5 : The output sound waveform

● Vertical/Horizontal/E-W(East-West) Adjustment

NOTE : These adjustments are already aligned at the time of manufacture for optimum performance. Readjust of them should not be necessary unless IC02 (EEPROM) is defective.Because all the information of these adjustment are memorized in that IC.

Adjustment Procedures

1) Tune the TV set to receive a digital pattern unless otherwise noted.
2) Press SVC button on remote controller for about 3 seconds.
3) Press corresponding button (Refer to Table 1)on remote controller then you can find individual On Screen Display (OSD) around middle-left of screen.
4) Adjust Volume up or down button for correct picture.
5) Press OK button to memorize all the adjusted data, then press TV button.

Adjustment(Refer to Table 1)

VL-- (Vertical Linearity)

Note: When you press volume +/- button, the color will disappear at lower half of the display.

Adjust so that the boundary line between upper and lower half is in accord with geometric horizontal center of the picture tube.

VS -- (Vertical Shift)

Adjust so that the horizontal center line of digital circle pattern is in accord with geometric horizontal center of the picture tube.

VH -- (Vertical Height)

Adjust for 1/8" overscan at top and bottom display.

SC -- (Vertical "S" Compensation)

Adjust so that all distance between each horizontal lines are to be the same.

HS -- (Horizontal Shift)

Adjust so that vertical center line of the digital pattern is in accord with geometric vertical center of the picture tube.

EW -- (Horizontal Width)

Adjust so that digital circle pattern looks like exact circle.

EP -- (East-west Parabolar)

Adjust so that middle portion of the outermost left and right vertical line looks like parallel with vertical lines of the picture tube.

EC -- (East-west Coner)

Adjust so that the vertical line at every 4 corners of the screen looks like parallel with the vertical lines of the picture tube.

ET -- (East-west Trapezium)

Adjust to make the length of top horizontal line same with it of the bottom horizontal line.

● Screen Voltage Adjustment

Test Point : RK (Red Cathod of CPT Board)

Adjust : Screen Control of FBT

1) Tune the TV set to receive digital pattern.
2) Set contrast to 47%, brightness and color to 31% individually.
3) Connect the prove of oscilloscope to the RK (Red Cathod of CPT Board).
4) Adjust Screen Volume of FBT so that the waveform is the same as below Fig. 5.

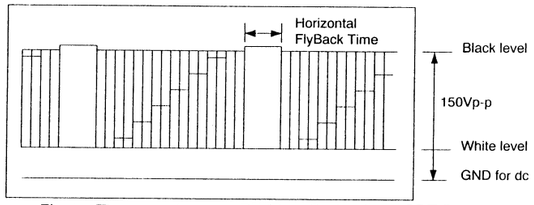


Fig. 5 : The waveform at RK (Red Cathod) on CPT Board

● Peak Limit Adjutment (Refer to Table 1)

1) Press TXT/M (▤) button on remote controller then you can find "PL-- " OSD around middle-left of screen.
2) Adjust volume up or down button for PL45.

● White Balance Adjustment (Refer to Table 1)

NOTE : This adjustment should be performed after screen voltage adjustment.

1) Tune the TV set to receive 87.5% white pattern.
2) Adjust Contrast, Brightness for 30±1 ft-L at the center area of screen.
3) Press SIZE (▤) button on remote controller then you can find "GG- -" OSD around middle-left of screen.
4) Adjust volume up or down button for GG31.
5) Press Reveal (▤)/UP DATE (▤) button you an find "RG--"/"BG--" OSD around middle-left of screen.
6) Adjust volume up or down button in each status of "RG--"/"BG--" for X=281±10, Y=287±10 with color analyzer.

● Focus Adjustment

NOTE : This adjustment should be performed after warming up for 10 minutes.

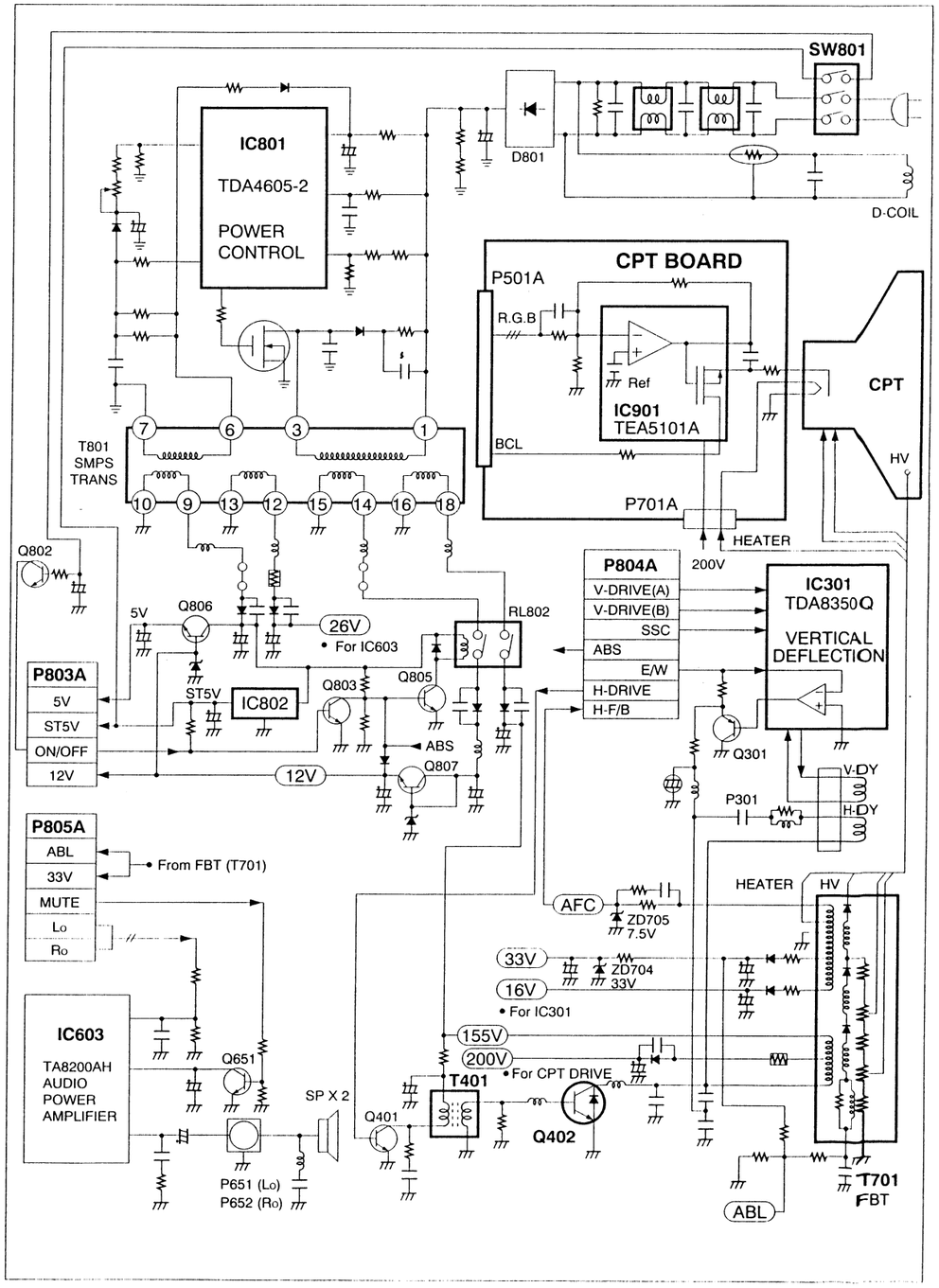
Test Point : Observe display

Adjust : Focus control of FBT

1) Set color to minimum, brightness and contrast to maximum individually.
2) Tune the TV set to an inactive channel station (snow condition).
3) Adjust the Focus control for best overall focus.

Block Diagram

(POWER/DEFLECTION/SOUND AMP BOARD & CPT BOARD)



Component Location Guide for Main 1

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C04 A5
C05 A5
C06 A5
C07 B5
C08 B5
C09 B5
C10 B5
C11 B5
C12 A5
C13 A3
C16 A4
C17 C5
C18 C5
C19 C5
C51 A3
C52 A3
C53 B3
C54 B3
C55 B3
C56 B3
C57 B3
C58 B3
C59 B3
C60 B3
C61 B3
C62 B3
C63 B3
C64 B3
C65 B3
C66 B3
C67 A3
C68 B3
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C77 B2
C78 B1
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C81 B1
C82 B1
C84 C1
C87 C1
C91 A1
C93 B1
C98 C2
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VL102 E4
VL141 F4
VL601 G2
VR101 E4
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Z144 F4
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ZD510 C3

ation Guide for Main 1

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7	D2	J322	A5	P501B	C4	R55	B5	R141	F4	R253	G3	R568	C3
9	C3	J323	C3	P803B	A1	R56	B4	R142	G4	R254	A5	R601	F2
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3	C2	J326	E2	Q05	B4	R59	B5	R146	E4	R258	A2	R614	F3
4	D3	J327	E2	Q08	B4	R60	B4	R147	E4	R259	A2	R615	F3
5	D3	J329	C4	Q09	B4	R61	A4	R153	G4	R260	A1	R616	E3
7	C1	J330	D2	Q10	B4	R62	B4	R154	G4	R261	A1	R617	E3
8	C1	J331	C2	Q11	A4	R63	B5	R155	G4	R262	A1	R618	G3
9	C1	J332	G3	Q12	C5	R64	B4	R156	G4	R263	G1	R631	B4
0	C2	J333	F1	Q51	C3	R65	A4	R157	G4	R264	G1	R632	A3
1	C2	J334	E2	Q52	C2	R66	A4	R181	F5	R501	A4	R633	B4
2	C2	J335	A3	Q53	C3	R67	C5	R182	F5	R502	B4	R634	B4
3	C2	J336	A3	Q101	E5	R68	C5	R201	F2	R503	B4	R635	A3
4	C3	J337	A2	Q102	E4	R69	C5	R202	F2	R504	B4	R636	B4
5	C3	J338	G2	Q201	G1	R71	A3	R203	F2	R506	C3	R637	B4
6	C3	J339	C4	Q202	G1	R73	B3	R204	F2	R507	C3	R638	C3
7	C3	J340	B1	Q204	G4	R74	B3	R205	F2	R508	C3	R639	B4
8	B3	J341	D5	Q205	F1	R75	C3	R206	F2	R509	C3	C640	C3
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1	B3	J344	D5	Q253	A5	R78	C2	R209	F2	R512	C4	R655	F3
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3	A3	J605	D2	Q255	A5	R80	C2	R211	F1	R514	D4	SK102	G2
4	A3	L01	B5	Q501	C3	R81	B3	R213	F1	R516	C4	VL102	E4
5	A3	L51	B3	Q502	D2	R82	C3	R214	F1	R517	C4	VL141	F4
6	A3	L52	C1	Q505	D4	R83	C2	R215	F1	R520	D4	VL601	G2
7	A3	L101	E5	R01	A5	R84	C3	R216	F1	R521	D4	VR101	E4
8	A3	L102	E5	R02	A5	R85	C2	R217	F2	R522	D3	VR141	F4
9	A1	L103	E5	R03	A5	R86	C3	R220	G1	R523	D3	X01	B5
1	A1	L104	E5	R04	A5	R87	C2	R221	F1	R524	D2	X51	B3
2	B1	L141	E4	R05	B5	R90	C3	R222	G1	R525	D2	X52	E3
3	A2	L142	F4	R06	A5	R91	C2	R223	G1	R526	D2	X53	B1
4	B2	L143	F4	R09	B5	R92	C1	R224	F1	R527	D2	X501	D1
5	B2	L182	F5	R10	A5	R93	C1	R225	G4	R529	D3	X502	C1
6	B2	L187	F5	R11	B5	R94	C3	R226	E1	R530	C3	Z101	E5
7	B2	L201	G4	R12	A5	R95	C1	R229	G2	R531	C4	Z102	F5
0	B2	L202	F3	R13	B5	R96	B1	R230	G2	R537	C2	Z103	E5
1	B2	L251	A1	R14	B5	R97	C1	R231	G1	R538	C2	Z104	F5
2	G2	L252	A1	R15	B5	R98	B1	R232	G1	R540	C4	Z141	E4
3	G2	L270	A2	R16	B5	R99	C1	R233	G1	R541	E2	Z142	E4
4	B1	L271	A2	R17	C5	R100	C1	R234	G1	R545	D2	Z143	F4
5	B1	L501	D4	R28	E3	R101	E4	R235	G3	R546	E2	Z144	F4
6	B1	L502	D2	R29	C5	R102	E4	R236	G3	R547	E3	ZD505	C4
7	B1	L503	A5	R31	E3	R103	E4	R237	G3	R550	E1	ZD510	C3
0	A2	P257	A2	R34	A5	R104	E4	R238	G3	R551	D1		
6	C3	P258	A2	R36	B5	R105	E5	R239	G4	R553	D1		
7	B2	P259	A1	R37	E3	R105	E5	R240	G4	R554	D1		
8	D3	P260	A1	R39	D5	R107	E5	R241	G2	R555	C3		
0	E2	P261	A1	R41	B5	R108	E5	R242	F1	R556	C3		
1	C4	P284	A3	R42	B5	R109	E5	R243	F1	R557	C3		
2	F2	P285	A3	R43	B5	R110	E5	R244	F1	R558	E2		
3	F1	P286	A3	R45	B4	R111	E5	R245	G4	R559	E2		
4	F1	P287	A3	R47	B4	R112	E5	R246	G3	R560	D1		
6	C3	P288	A3	R48	B4	R113	E5	R247	G3	R561	D1		

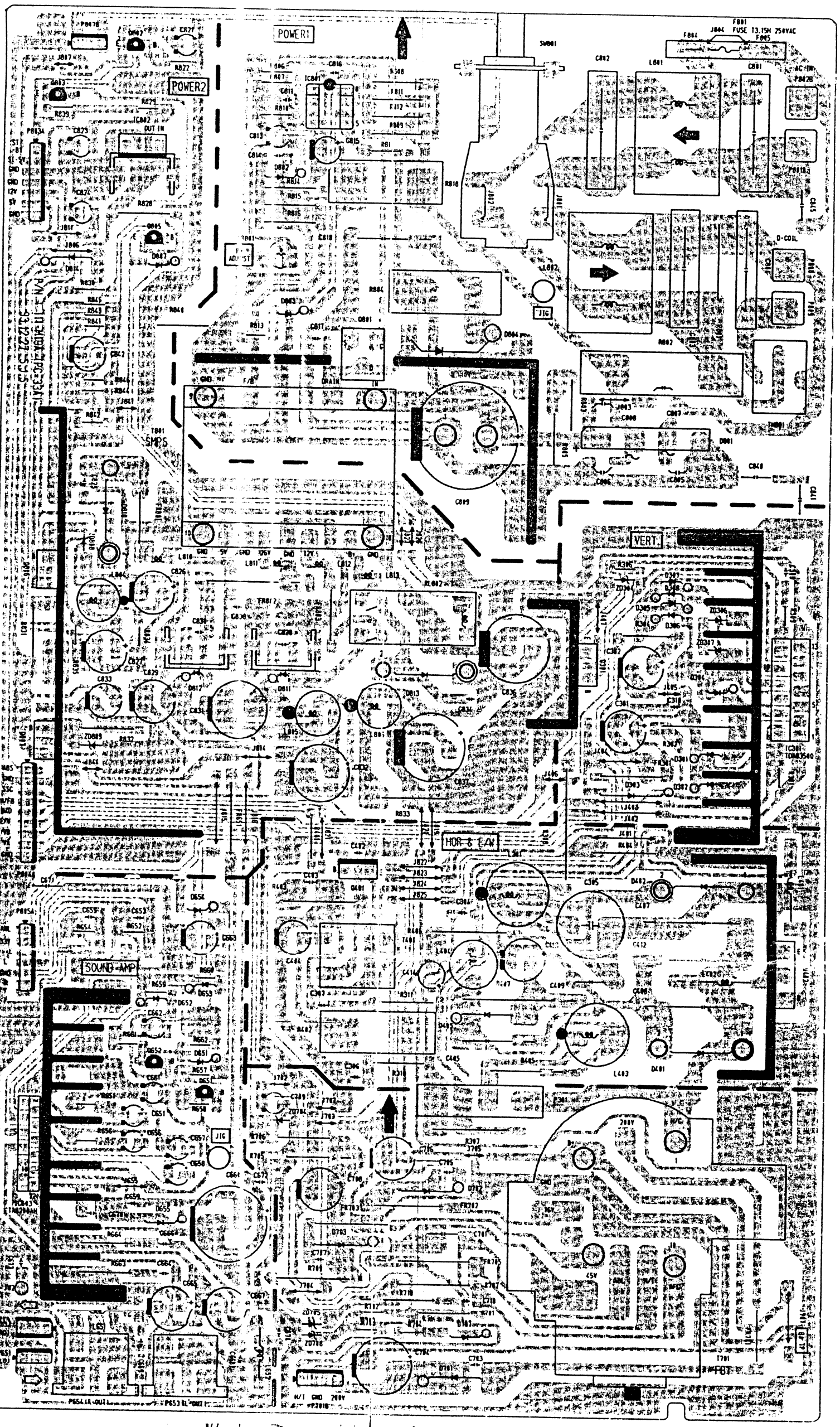
Component Location Guide for Power & Deflection & Sound Amp

C301	D2	C814	A3	FR705	G3	P653	G4	R804	B3
C302	D2	C815	A3	FR801	C4	P654	G4	R805	B2
C304	E2	C816	A3	FR802	C4	P808	B1	R806	A3
C305	E2	C817	B3	FR803	C3	P809	B1	R807	A3
C306	F3	C818	B3	IC301	D1	P701B	G3	R808	A3
C307	E3	C821	A4	IC603	F4	P801B	A1	R809	A3
C309	C1	C823	A4	IC801	A3	P802B	A1	R810	A3
C310	D1	C824	B4	IC802	A4	P803A	A4	R811	A3
C402	E3	C825	C4	J401	E2	P804A	D4	R812	A3
C403	E3	C826	C4	J402	D2	P805A	E4	R813	B3
C404	E3	C827	D4	J403	D2	P807B	A4	R814	A3
C405	F2	C828	D3	J404	D2	Q301	D2	R815	A3
C407	E1	C829	D4	J405	D1	Q401	E3	R816	B3
C408	E1	C830	D4	J406	D2	Q402	E1	R817	A3
C409	E2	C831	D3	J407	C2	Q651	F4	R818	A3
C412	E1	C832	D3	J655	F4	Q652	F4	R822	A4
C413	E2	C833	D4	J701	G1	Q801	B3	R828	B4
C414	E2	C834	D2	J702	F3	Q802	A4	R829	A4
C651	F4	C836	D2	J703	F3	Q803	A4	R830	B4
C652	E4	C837	D2	J704	G3	Q805	B4	R831	C4
C653	E4	C838	C3	J705	F2	Q806	C4	R832	D4
C654	E4	C840	C1	J707	F3	Q807	D4	R833	D3
C655	E4	C841	C1	J801	A2	R301	D1	R834	D4
C656	F4	C842	B4	J802	A2	R302	D1	R835	D4
C657	F4	C845	A1	J803	B2	R304	D2	R839	A4
C658	F4	D301	D1	J804	A1	R305	C2	R840	B4
C659	F4	D302	D1	J806	B4	R307	F2	R841	B4
C660	G3	D303	D1	J807	A4	R308	D2	R842	C4
C661	F4	D304	D1	J811	B4	R309	C1	R843	B4
C662	F4	D305	C1	J814	D3	R310	F3	R844	B4
C663	E4	D306	D1	J815	E3	R311	E3	R845	B4
C664	G4	D307	C1	J816	E3	R401	D3	R846	B4
C665	G4	D308	C1	J819	D2	R402	F3	RL802	C2
C666	G4	D401	F1	J820	E3	R403	E3	T401	E3
C667	G3	D402	E1	J821	D3	R404	E2	T801	C4
C668	G3	D405	F2	J822	E3	R405	F2	TH801	B1
C669	G4	D651	F3	J823	E3	R406	E2	VR801	B3
C670	G4	D652	E4	J824	E3	R407	E2	ZD304	C1
C671	E4	D653	E4	J825	E3	R651	F4	ZD306	D1
C672	F3	D654	E3	J826	C3	R652	E4	ZD307	D1
C673	G4	D655	G4	J827	C3	R654	E4	ZD704	F3
C674	G3	D701	G2	J841	C4	R656	F4	ZD705	G3
C701	G2	D702	F2	J844	D4	R657	F4	ZD708	G3
C703	G2	D703	G3	L301	E2	R658	F4	ZD808	C4
C704	G3	D707	G2	L401	E1	R659	E4	ZD809	D4
C705	F2	D801	C2	L402	E1	R660	E4		
C706	F3	D802	A3	L403	F2	R661	F4		
C707	G3	D803	B3	L404	E2	R662	F4		
C708	F3	D804	B3	L651	G4	R701	G3		
C709	F3	D807	B4	L652	G3	R702	G3		
C710	G2	D810	C4	L804	C4	R703	G3		
C801	A1	D811	D3	L805	D3	R704	G3		
C802	A2	D814	B4	L806	F3	R705	F3		
C803	B1	F801	A1	L810	C4	R706	F3		
C806	C2	FBT	F2	L811	C3	R707	G3		
C807	B1	FR301	D2	L812	C3	R709	G3		
C808	C2	FR651	D3	L813	C3	R710	G3		
C809	C2	FR701	G1	P301	F2	R801	B1		
C811	A3	FR702	F3	P651	G4	R802	B2		
C813	A3	FR703	G3	P652	G4	R803	B2		

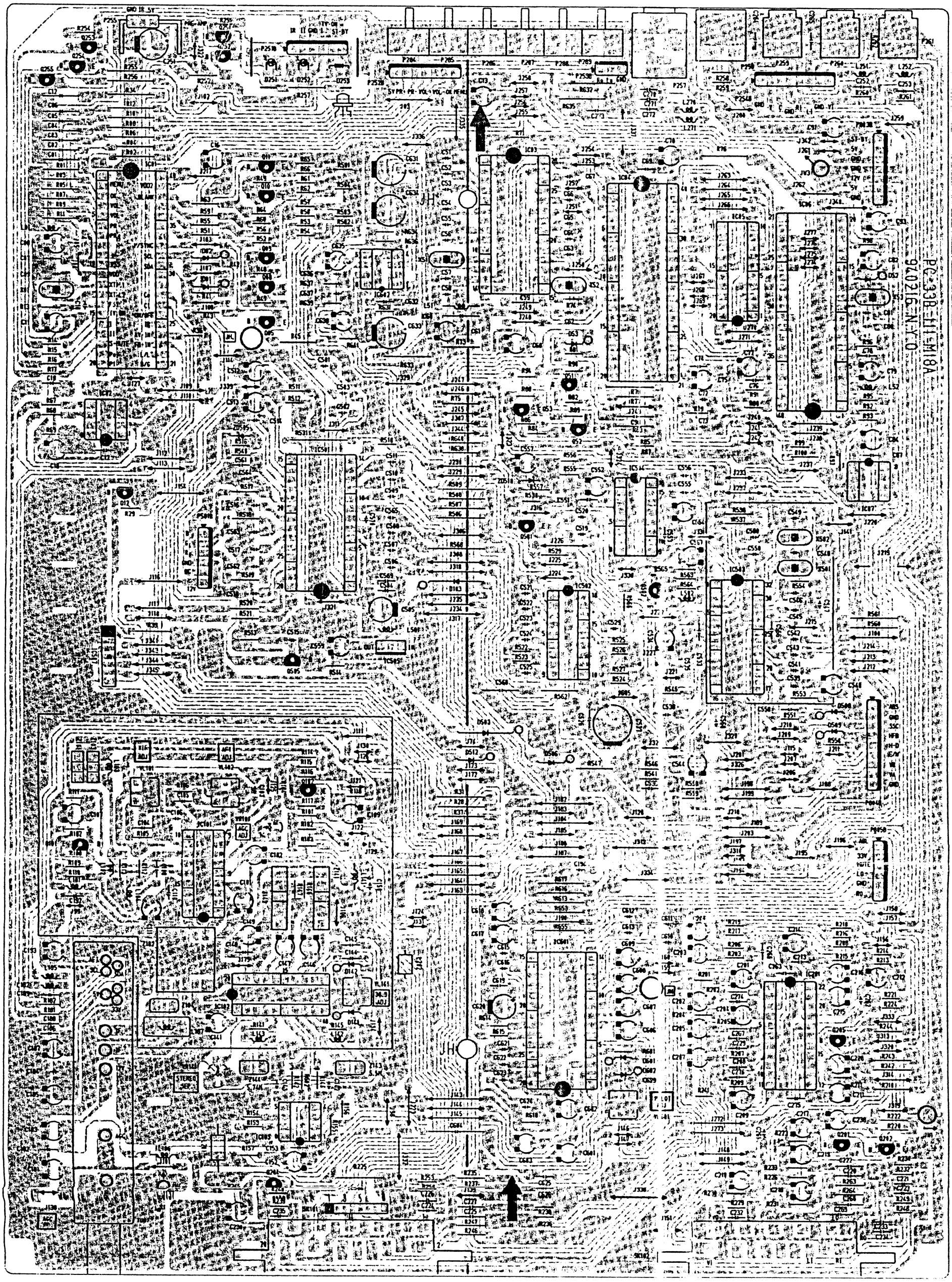
Main 2 Printed Circuit Board (Component Side)
(POWER & DEFLECTION & SOUND AMP BOARD)

4 3 2 1

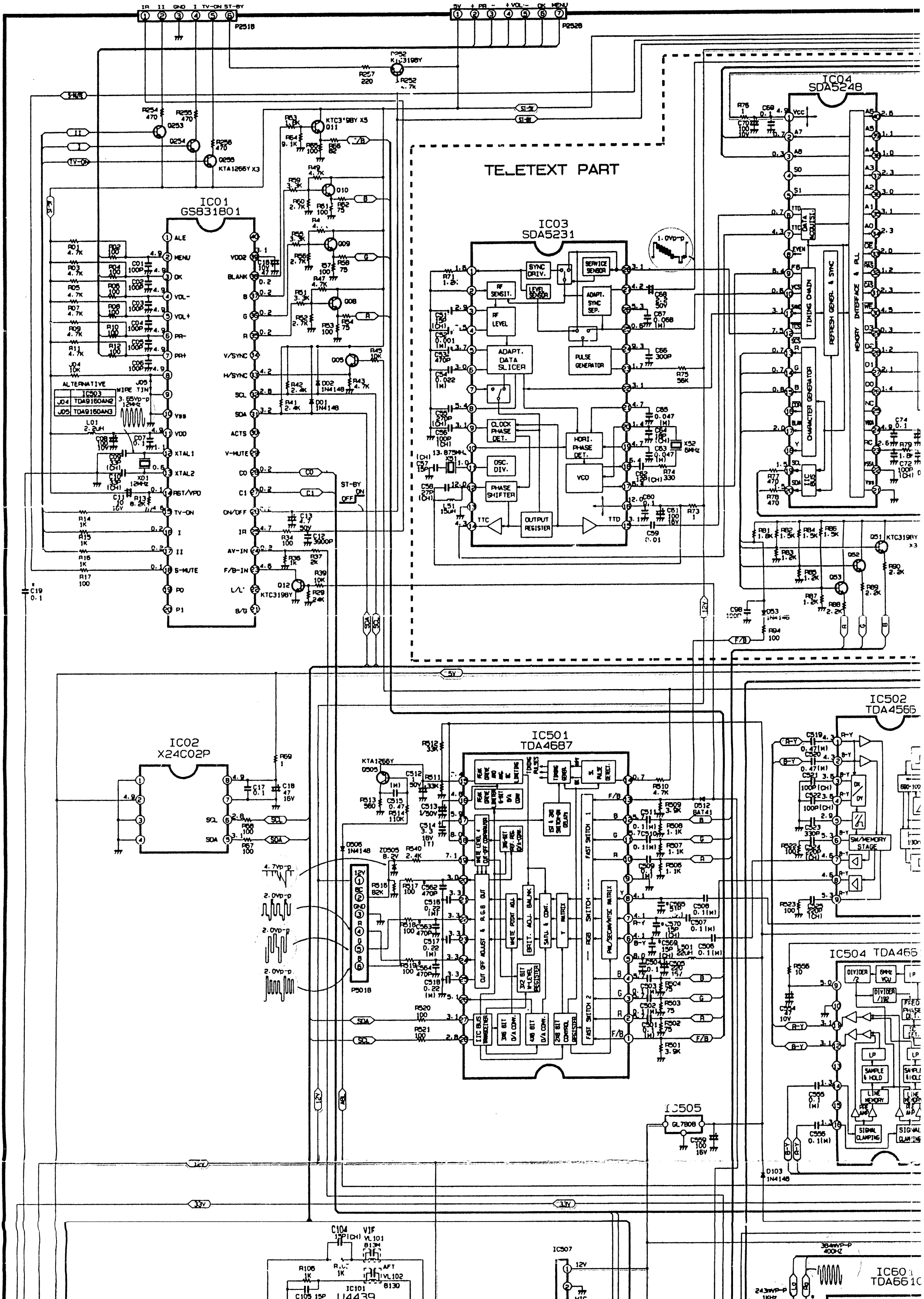
A B C D E F G



Main 1 Printed Circuit Board (Component Side)



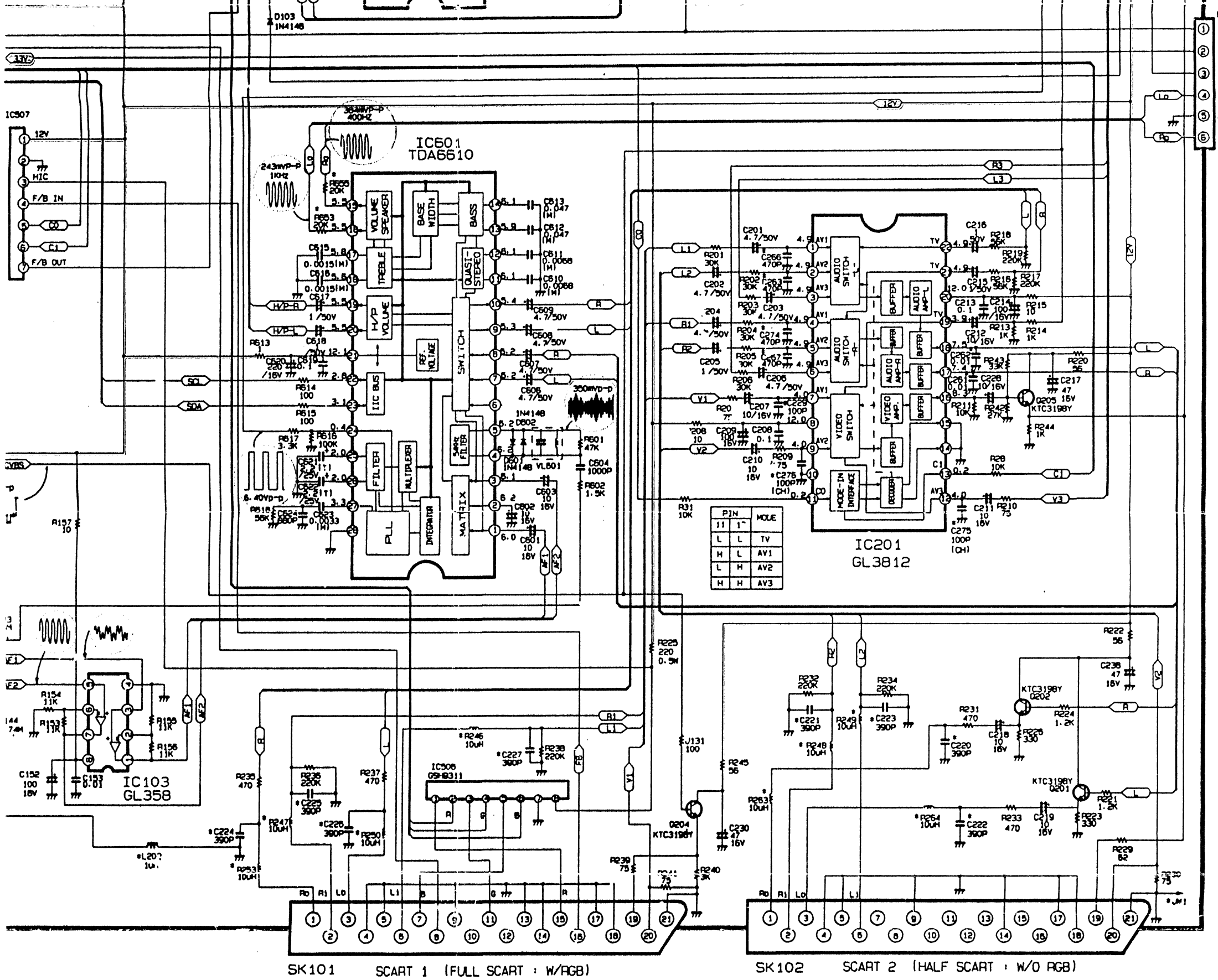
SCHEMATIC DIAGRAM (PC-33B 2

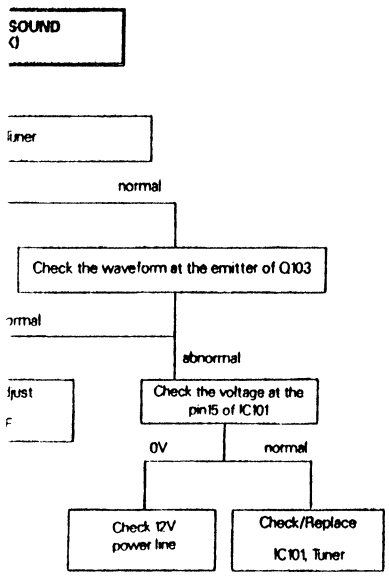


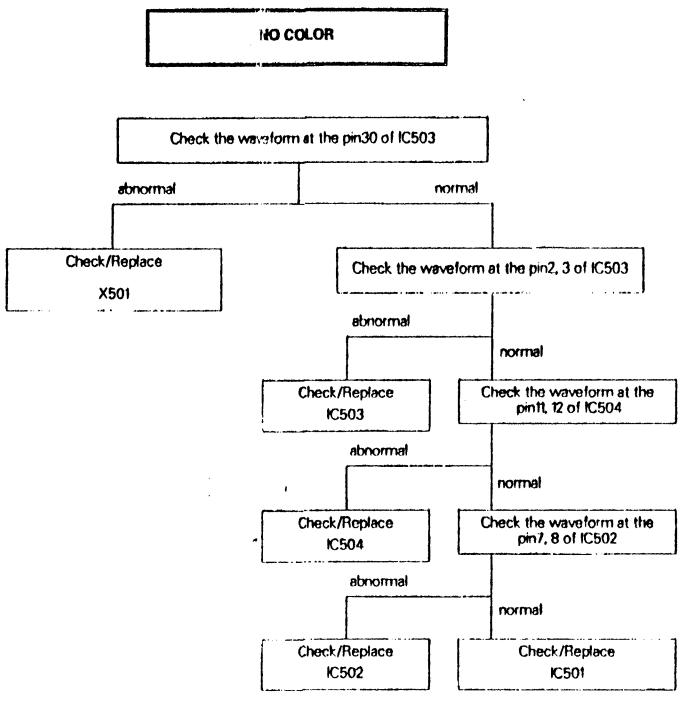
IAGRAM (PC-33B 28 inch MAIN)

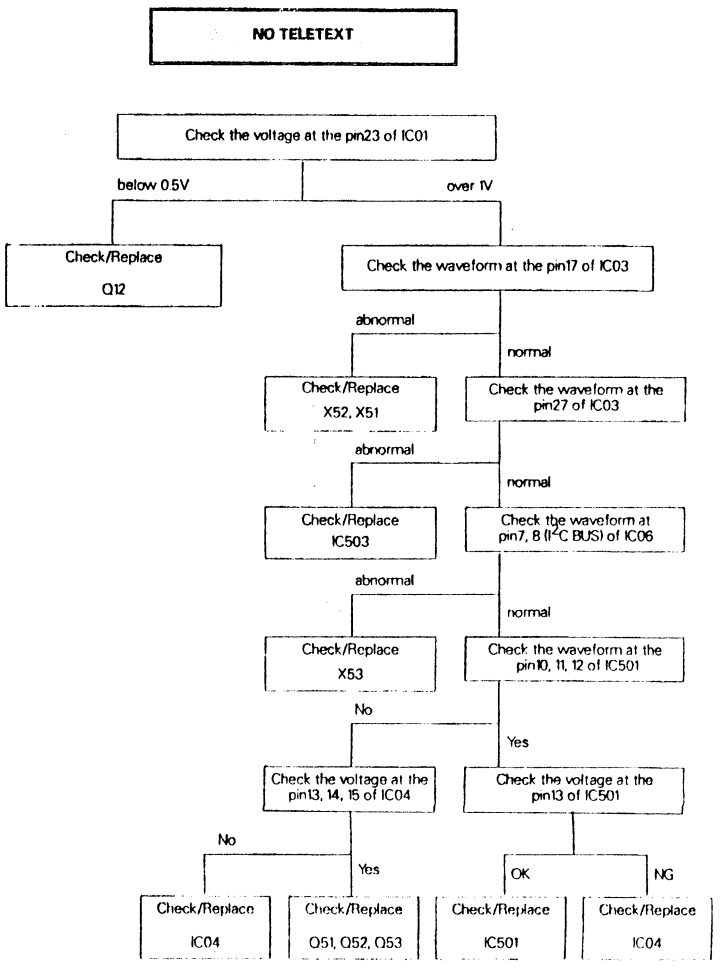
CHROMA
EXT CHROMA

P2528
P2538
P2548
IC04
SDA5248
IC602
TDA2822M
IC05 GM71C4256-70
IC06
SDA20160
IC07
TDA2526
IC502
TDA4566
IC503
TDA9160A
IC504 TDA4661
IC505
GL7808
KT PART
SERVICE SENSOR
ADAPT. SYNC SEP.
PULSE GENERATOR
HORI. PHASE DET.
VCO
X52 6MHz
TIMING CHAIN
REFRESH GENER. & SYNC
MEMORY INTERFACE & PLL
CHARACTER GENERATOR
IIC BUS
TRAP
DELAY
SECAM DEMOD.
HUE
SUBC PLL
IDENT
PAL NTSC DEMOD
FD-CTR
CHR BP
BELL BP
ACC
BIAS
SWITCH
SYNC SEPAR.
V-SYNC
TIMING
ADD. SWITCH
PHI 2
GEO PROC
HOR PLL
DIVIDER /2
6MHz VCO
LP
DIVIDER /192
FREQ. PHASE DET.
SAMPLE & HOLD
LINE MEMORY
SIGNAL CLAMPING
SW/MEMORY STAGE
FAST SWITCH 1
FAST SWITCH 2
RGB SWITCH
PAL/SECAM/NTSC MATRIX
CONTROL REGISTER
1.0Vp-p
1.45Vp-p
5.3Vp-p
3.6Vp-p 50Hz
1.66Vp-p
4.6Vp-p
540mVp-p
717mVp-p
429mVp-p
384mVp-p 400Hz
5V
12V
33V

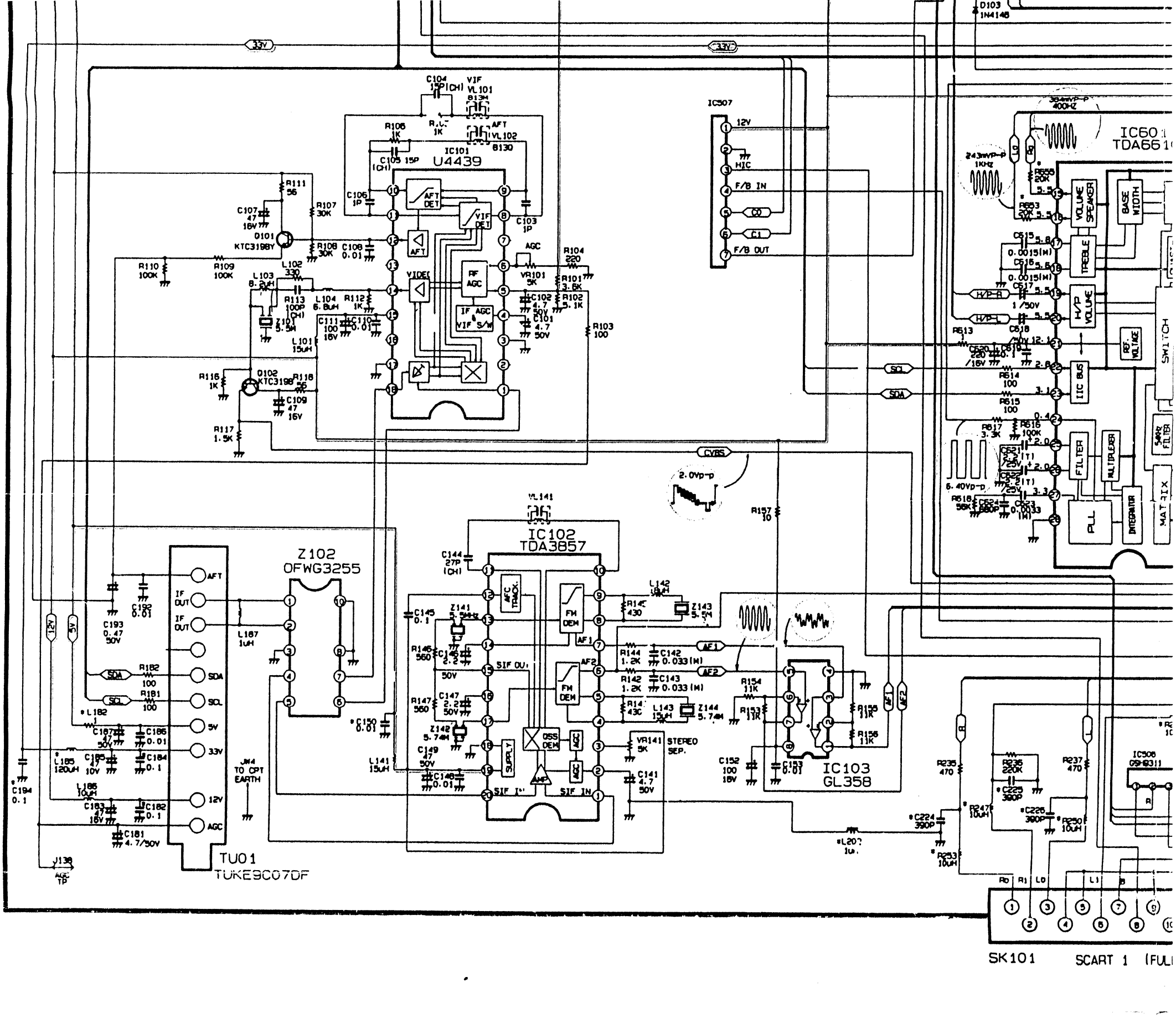




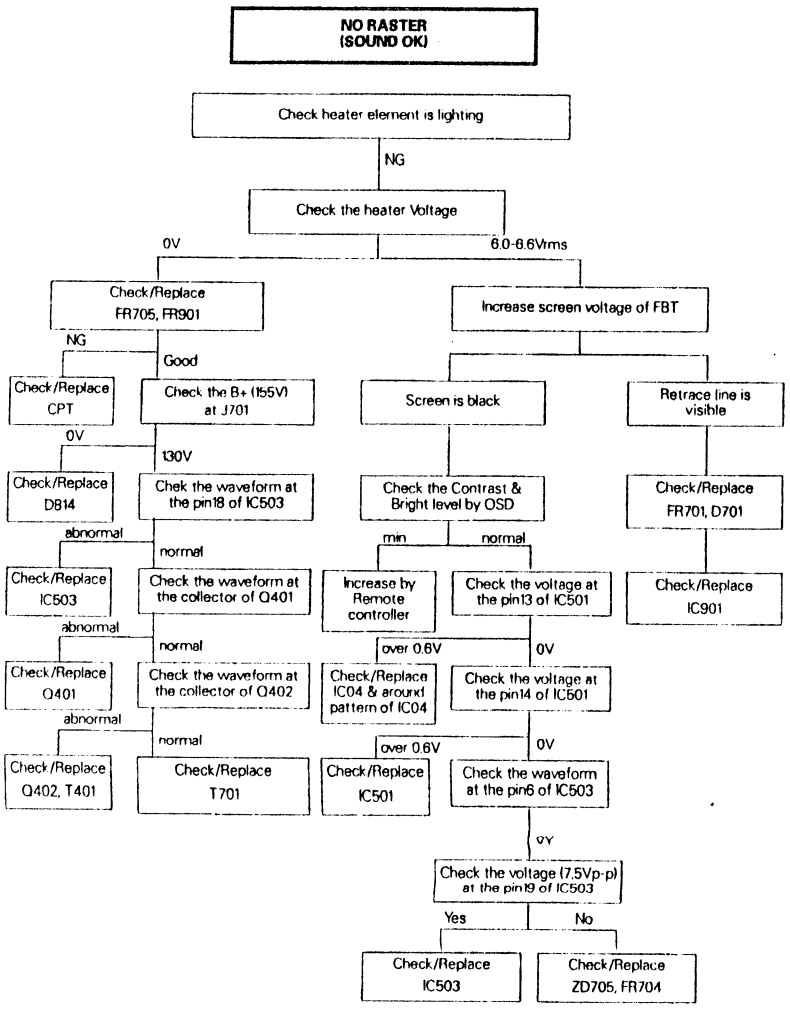


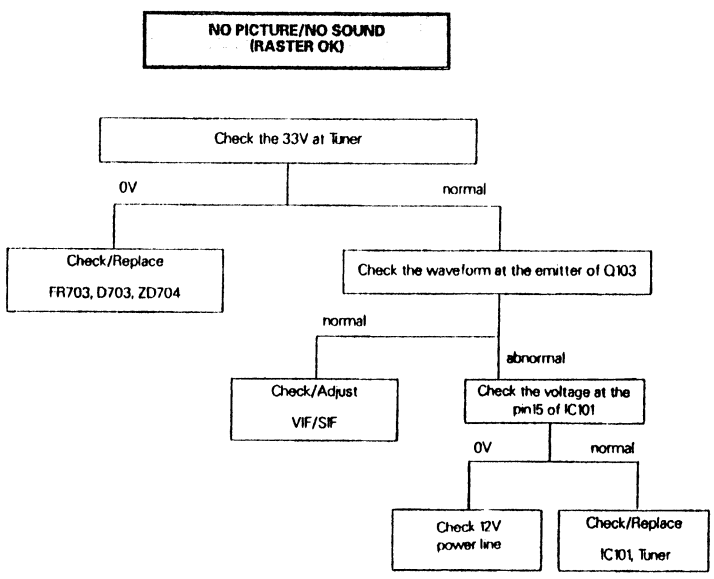


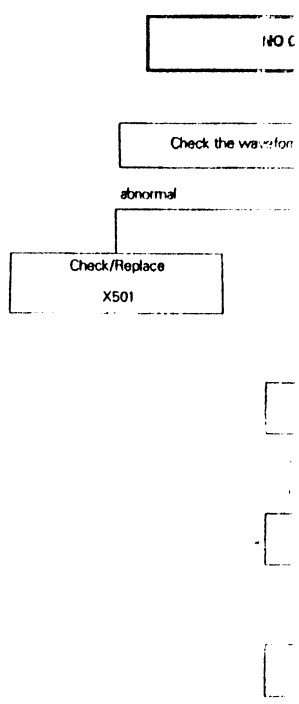
P/N : 484-896A-S1(1/2)



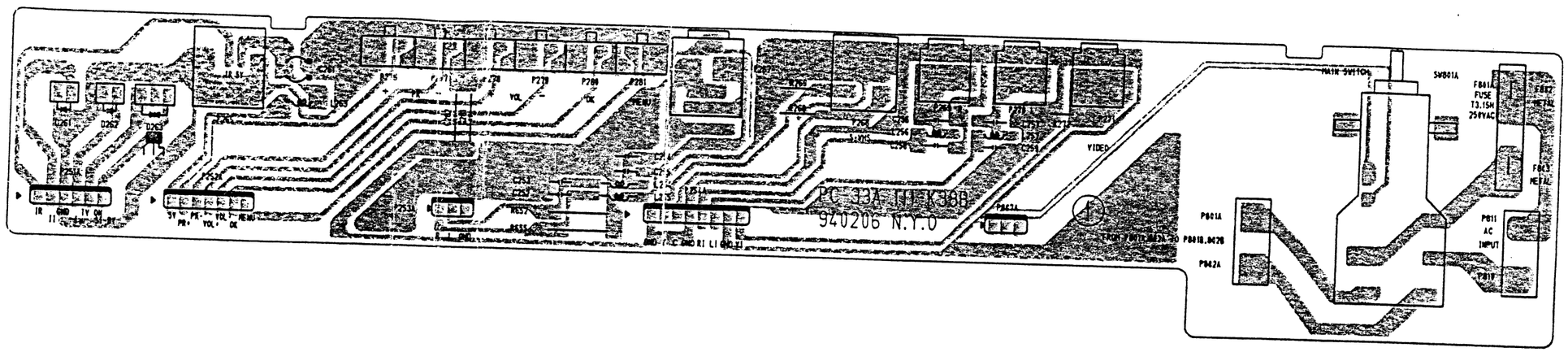
■ Troubleshooting Guide



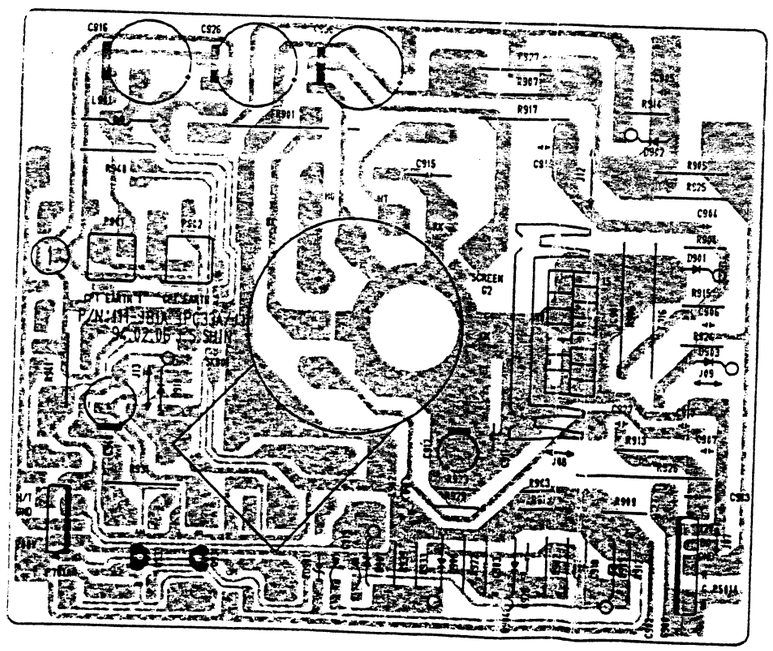




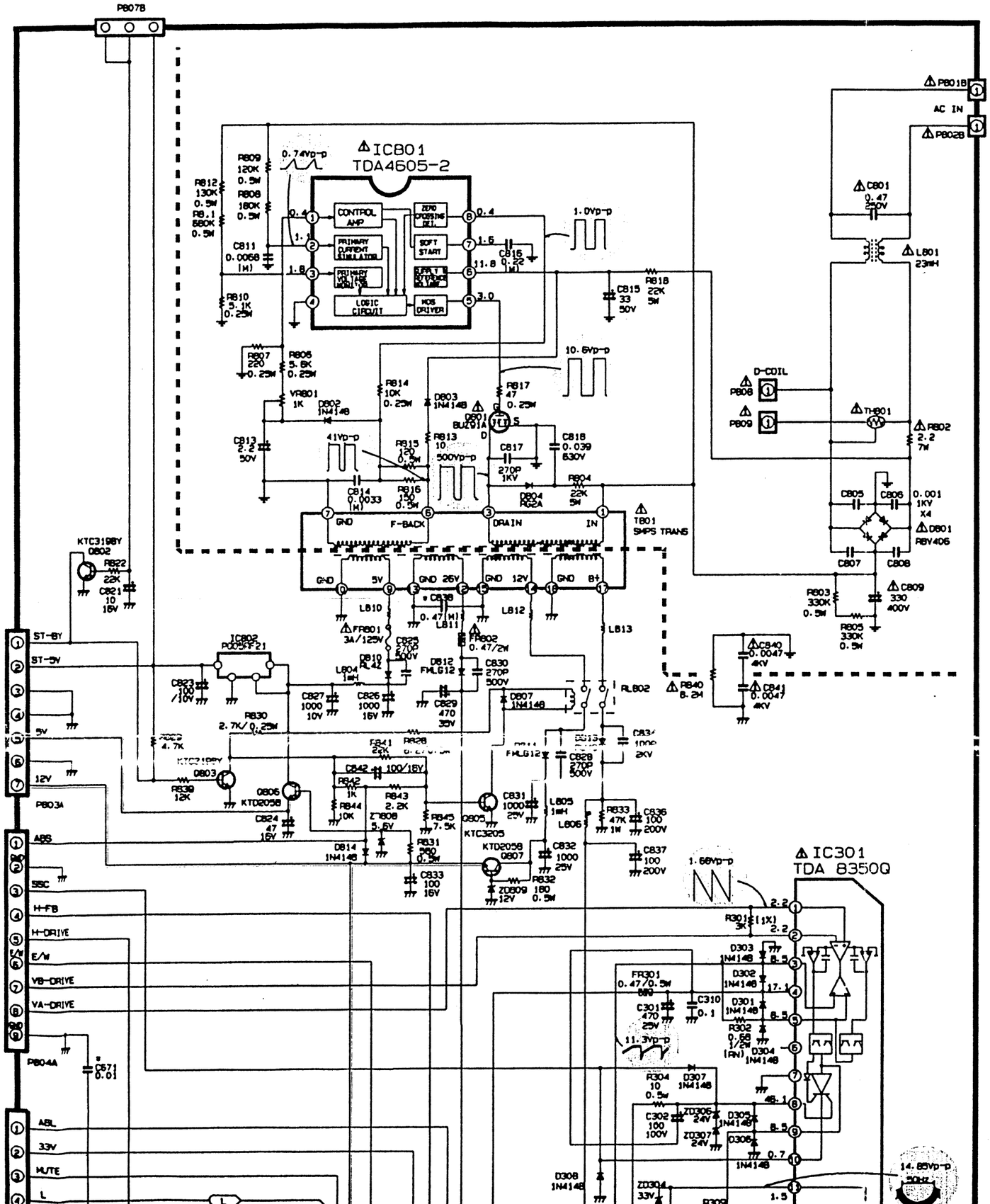
Control Printed Circuit Board (Component Side)

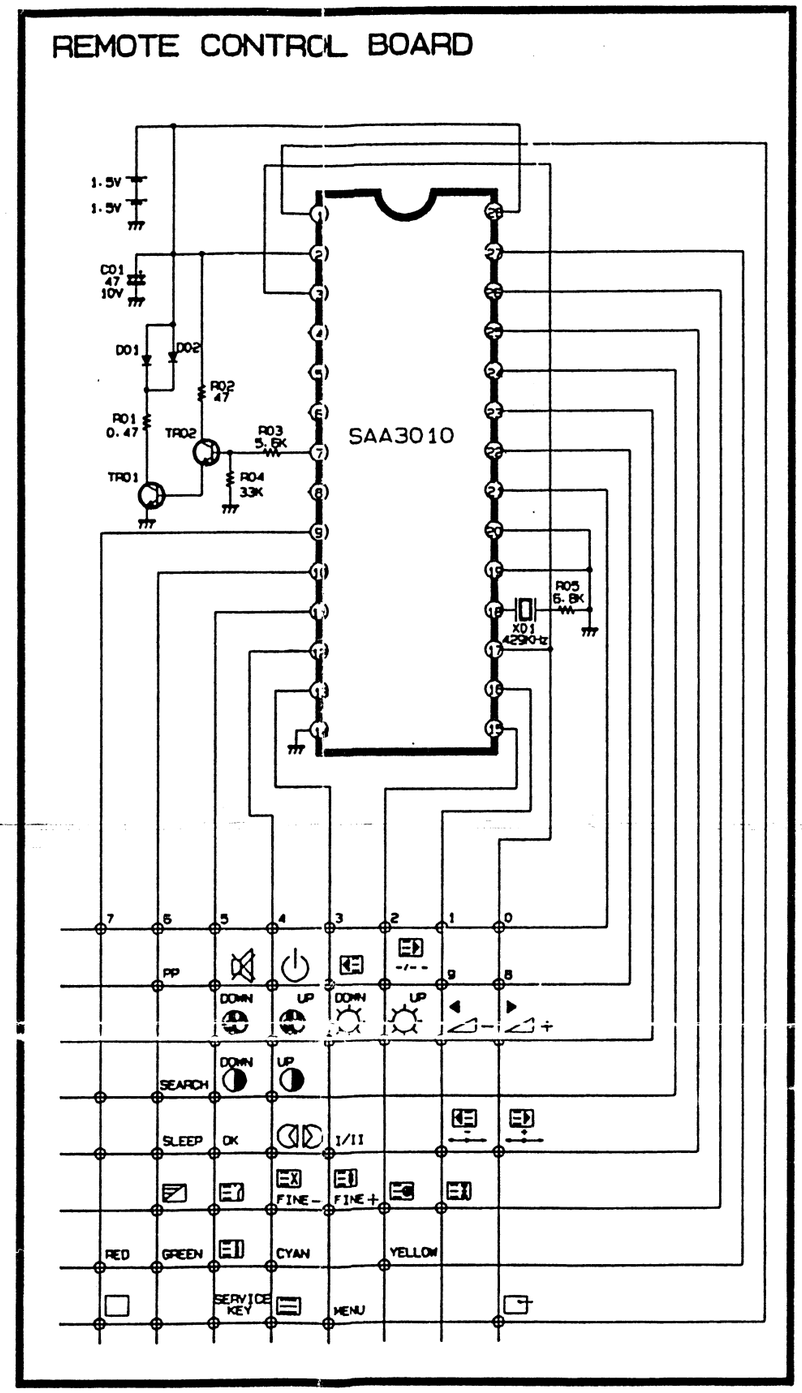


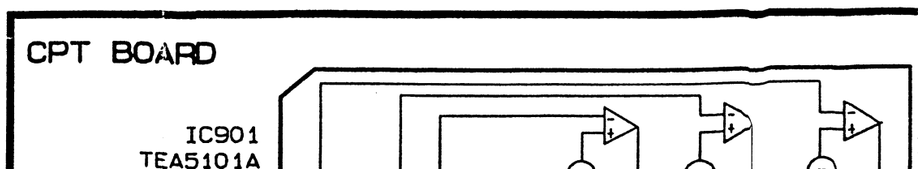
CPT Printed Circuit Board (Component Side)



SCHEMATIC DIAGRAM (PC-33B 28inch SUB)







NOTICE

Since this a basic circui
the value of components a
are subject to change for

The components marked Δ
and are essential for sa
marked Δ are required
parts only when replacin

Value of resistor.

1. Resistances are shown
2. Unles otherwise noted
than 1 are expressed i
The sign of (M) in sch
3. Unless otherwise noted
than 1 are expressed i

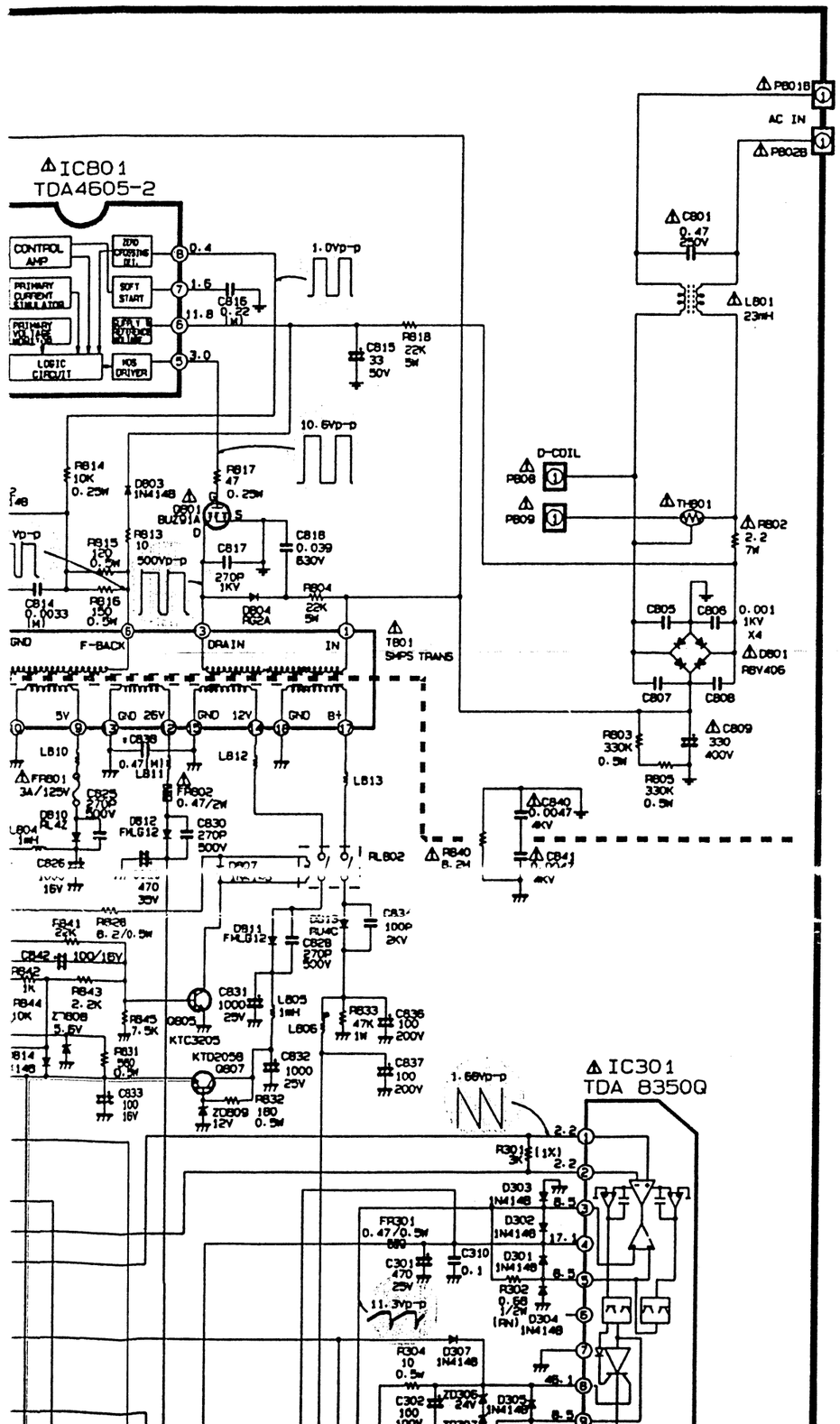
Observation of volt

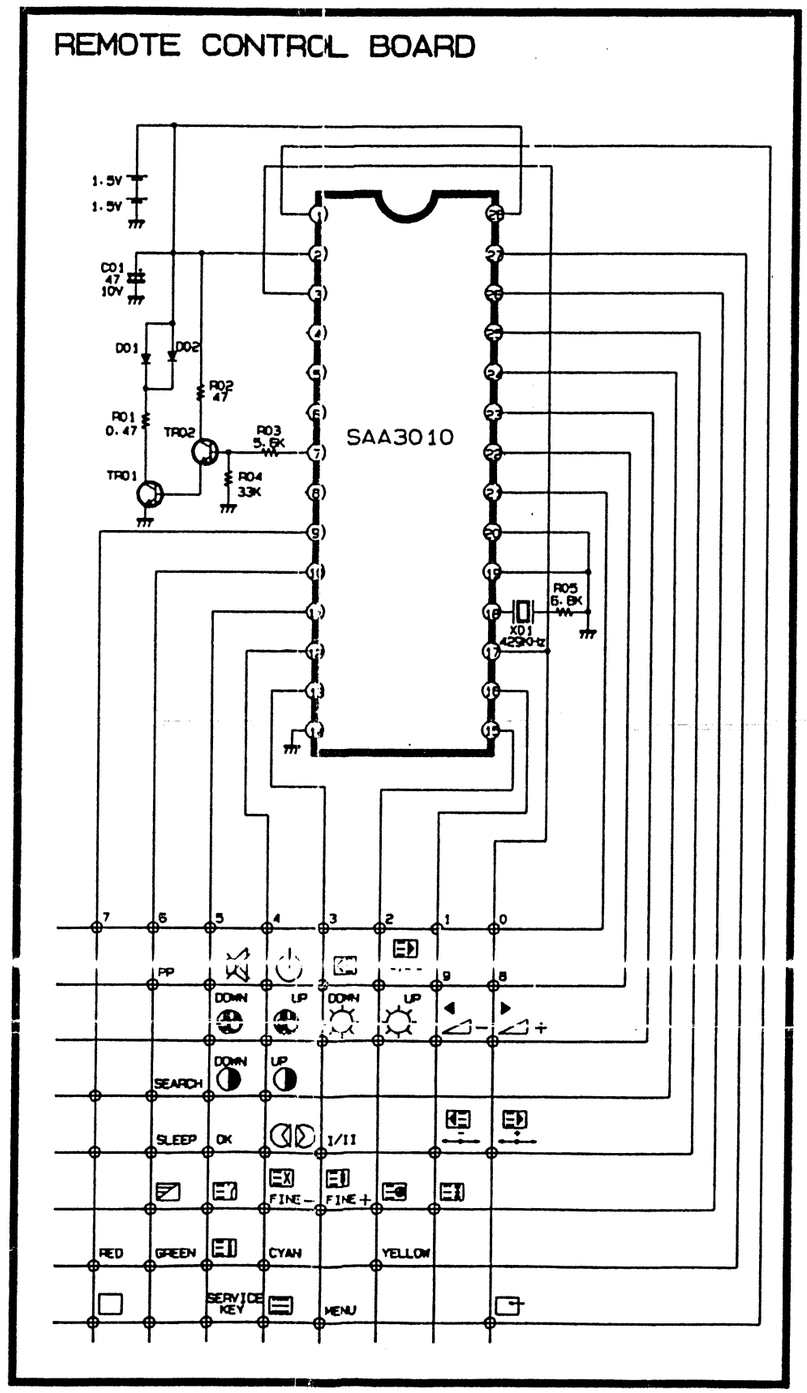
1. Voltages with VTVM fro
Line voltage is 230+/-
Signal pattern is colo
2. The schematic shown is
3. All waveforms are take
and a low capacity pro
4. Check Fine tuning. AGC
for best picture. make
are in mid position an

NOTE

Components marked (*)
for FTZ standard.

SCHEMATIC DIAGRAM (PC-33B 28inch SUB)





NOTICE

Since this a basic circuit diagram.
the value of components and some partial connection are subject to change for improvement.

The components marked ⚠ conform to VDE or IEC guide-lines and are essential for safe operation of the set, while those marked ⚠ are required for correct operation. Use specified parts only when replacing.

Value of resistor, capacitor and inductor

1. Resistances are shown in ohm. K=1,000. M=1,000,000.
2. Unles otherwise noted in schematic, all capacitor values less than 1 are expressed in uF and the values more than 1 in pF. The sign of (M) in schematic means MYLAR CAPACIITOR.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in uH.

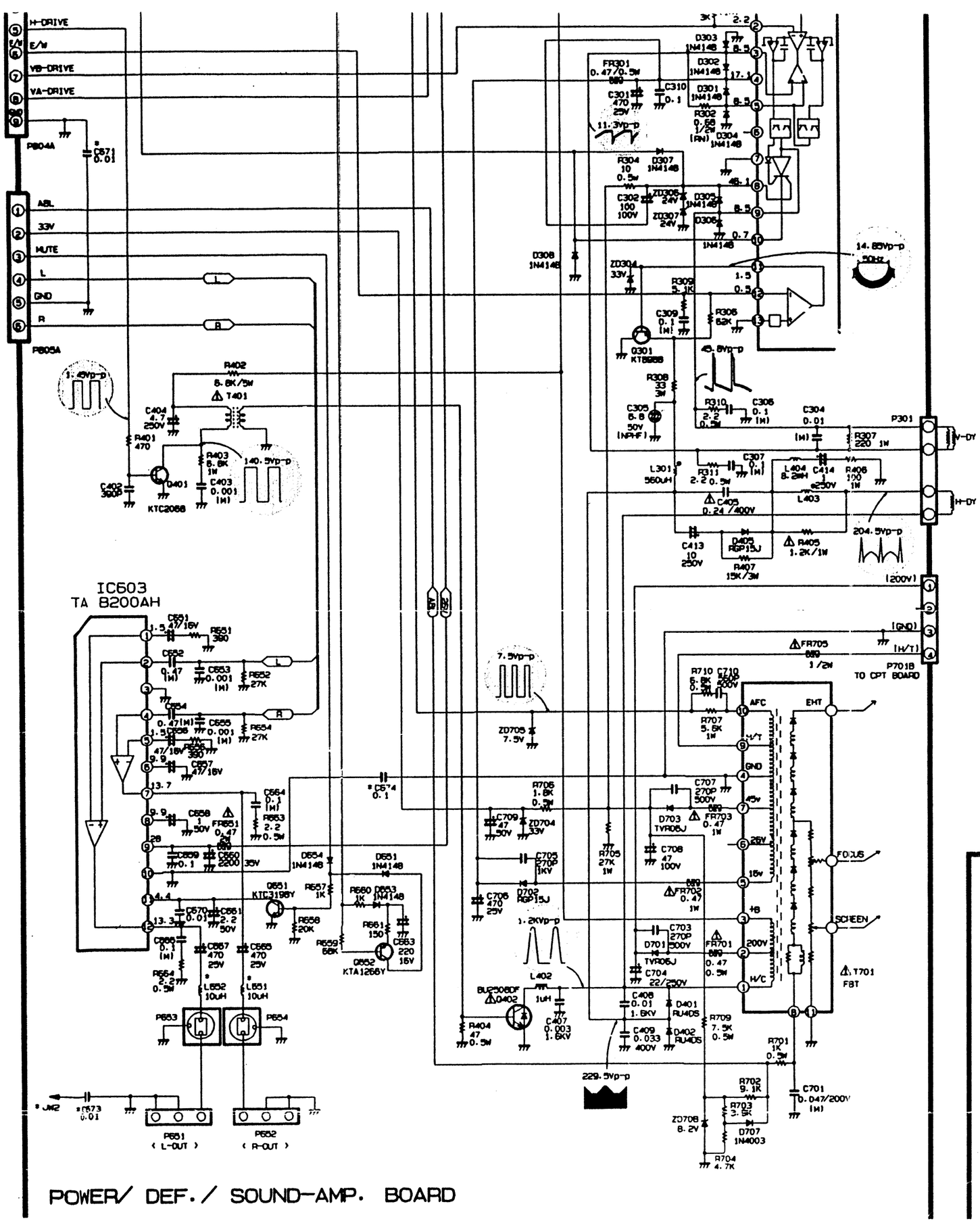
Observation of voltage and waveforms

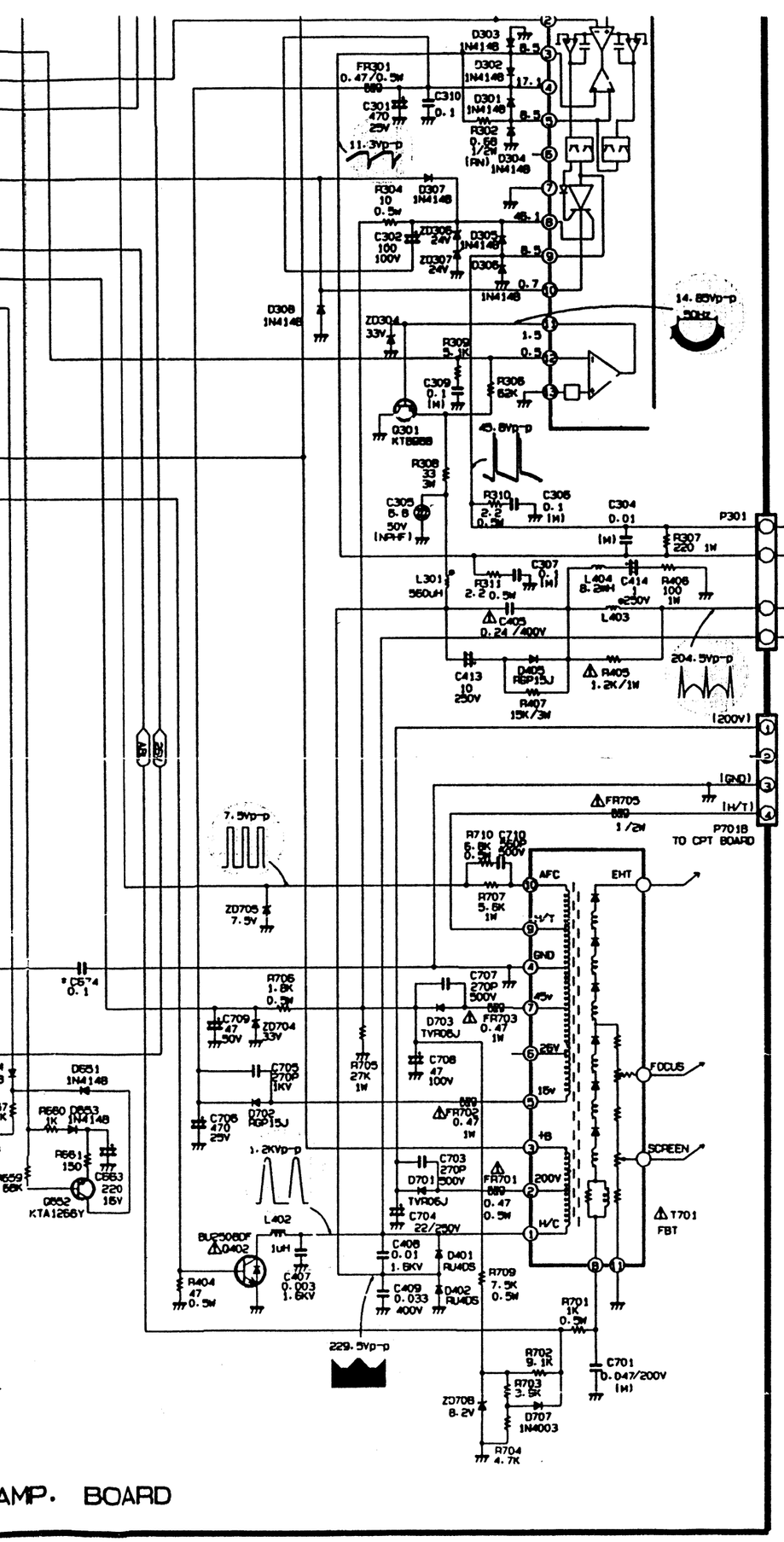
1. Voltages with VTVM from point shown to chassis ground. Line voltage is 230+/-10% volts. Signal pattern is color-bar.
2. The schematic shown is representative only.
3. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
4. Check Fine tuning, AGC, Brightness, Contrast and Colour for best picture, make sure that Colour, Brightness are in mid position and Contrast is in 75%.

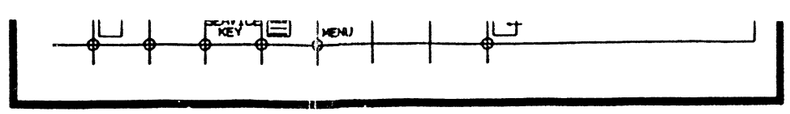
NOTE

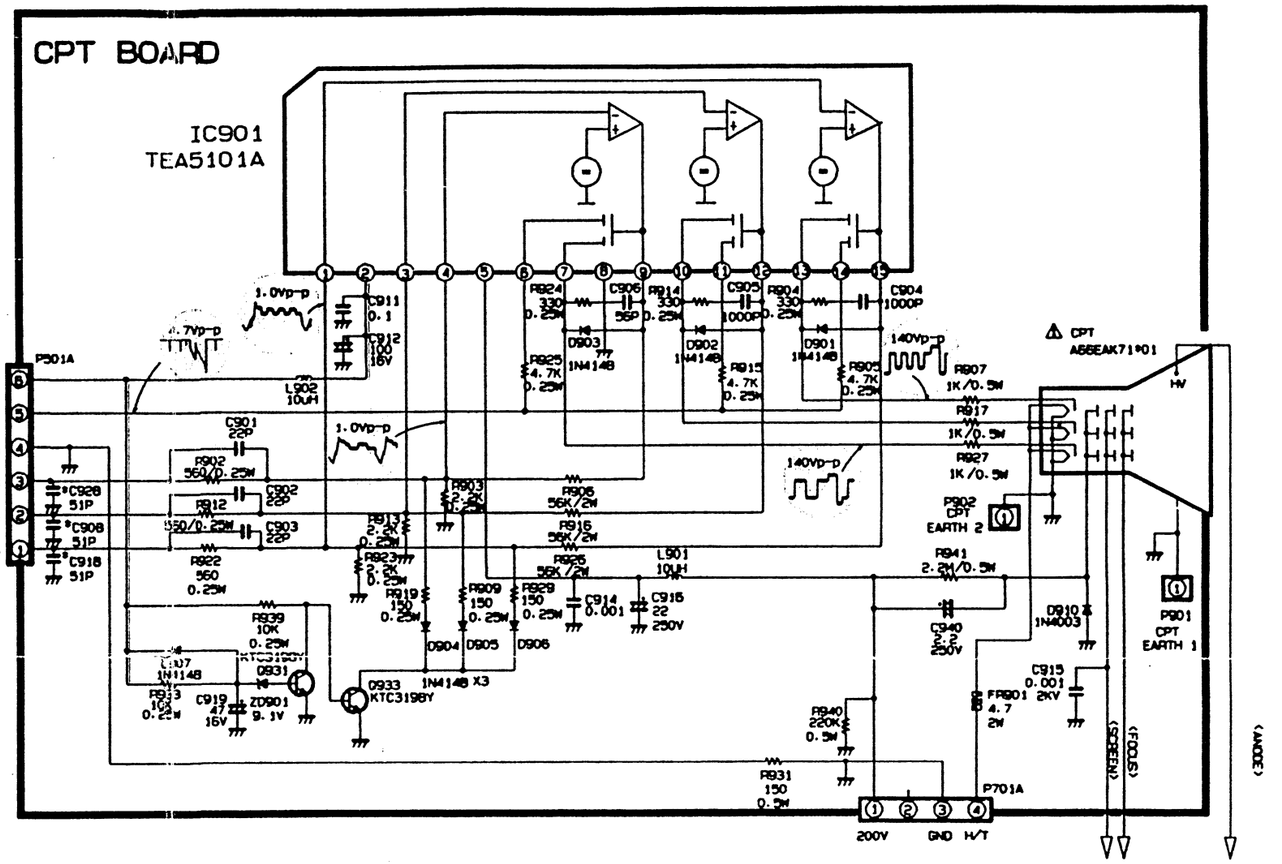
Components marked (*) in circuit diagram is optional item for FTZ standard.

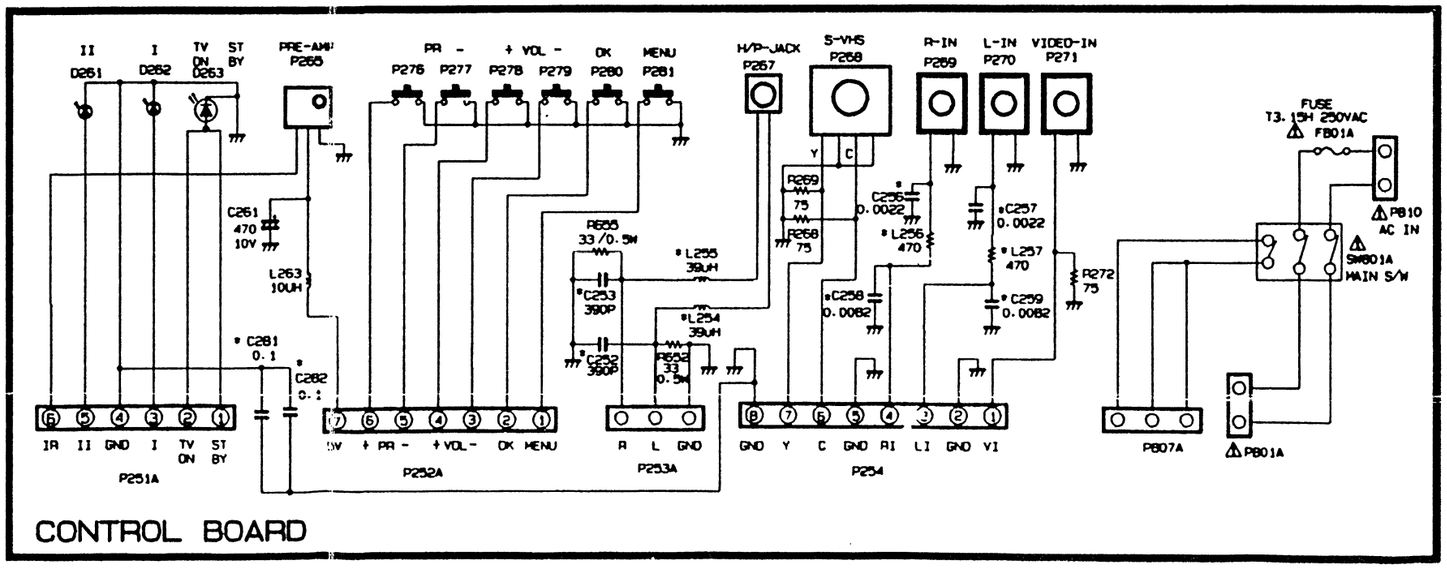
CPT BCARD


H-DRIVE
E/W
VB-DRIVE
VA-DRIVE
P804A
C671 0.01
ABL
33V
MUTE
L
GND
R
P805A
IC603
TA 8200AH
R402 6.8K/5W
T401
C404 4.7 250V
R401 470
R403 6.8K 1W
C403 0.001 (M)
C402 3300
Q401 KTC2068
140.5Vp-p
1.45Vp-p
C651 47/16V
R651 360
C652 0.47 (M)
C653 0.001 (M)
R652 27K
C654 0.47 (M)
C655 0.001 (M)
R654 27K
C656 47/16V
R655 360
C657 47/16V
C664 0.1 (M)
R663 2.2 0.5W
C658 1 50V
FR651 0.47 0.5W
C659 0.1
C660 2200 35V
Q651 KTC3198Y
D654 1N4148
D651 1N4148
R657 1K
R660 1K
D653 1N4148
R658 20K
R659 56K
R661 150
Q652 KTA1266Y
C663 220 16V
C570 0.01
C661 2.2 50V
C662 0.1 (M)
C667 470 25V
C665 470 25V
R664 2.2 0.5W
L652 10uH
L651 10uH
P653
P654
P651 (L-OUT)
P652 (R-OUT)
JA2
C673 0.01
AB
CD
C574 0.1
D303 1N4148
D302 1N4148
D301 1N4148
FR301 0.47/0.5W
C301 470 25V
C310 0.1
R302 0.56 1/2W (FN)
D304 1N4148
11.3Vp-p
R304 10 0.5W
D307 1N4148
C302 100 100V
ZD306 24V
ZD307 24V
D305 1N4148
D306 1N4148
D308 1N4148
ZD304 33V
R309 5.1K
C309 0.1 (M)
R305 62K
Q301 KTB688
45.8Vp-p
14.85Vp-p 30Hz
R308 33 3W
C305 6.8 50V (NPHF)
R310 2.2 0.5W
C306 0.1 (M)
C304 0.01 (M)
P301
R307 220 1W
V-DY
H-DY
L301 560uH
C307 0.1 (M)
R311 2.2 0.5W
L404 8.2MH
C414 1 e250V
R406 100 1W
L403
C405 0.24 /400V
C413 10 250V
D405 RGP15J
R405 1.2K/1W
R407 15K/3W
204.5Vp-p
(200V)
(GND)
(H/T)
FR705 0.68 1/2W
P701B TO CPT BOARD
7.5Vp-p
ZD705 7.5V
R710 C710 5.6K 2KV 0.5W
R707 5.6K 1W
AFC
EHT
H/T
GND
45v
28V
18v
+B
200V
H/C
FOCUS
SCREEN
T701 FBT
R706 1.8K 0.5W
C709 47 50V
ZD704 33V
C705 270P 1KV
R705 27K 1W
C706 470 25V
D702 RGP15J
1.2KVp-p
C703 270P 2KV
D701 TVR06J
FR702 0.47 1W
FR703 0.47 1W
D703 TVR06J
C708 47 100V
C704 22/250V
L402
BUE208DF Q402
1uH
C407 0.003 1.6KV
C408 0.01 1.6KV
D401 RU4DS
D402 RU4DS
C409 0.033 400V
R404 47 0.5W
R709 7.5K 0.5W
R701 1K 0.5W
C701 0.047/200V (M)
229.5Vp-p
R702 9.1K
R703 3.3K
D707 1N4003
ZD708 8.2V
R704 4.7K
POWER/ DEF./ SOUND-AMP. BOARD
SERVICE KEY
MENU
CPT BOARD
IC901
TEA5101A
P501A
12V
BCL
GND
R
G
B
TO MAIN BOARD P501B
1.0Vp-p
4.7Vp-p
140Vp-p
C911 0.1
C912 100 16V
L902 10uH
C901 22P
R902 560/0.25W
C902 22P
R912 560/0.25W
C903 22P
C928 51P
C908 51P
C918 51P
R922 560 0.25W
R824 330 0.25W
C906 56P
R914 330 0.25W
C905 1000P
R904 330 0.25W
C904 1000P
R825 4.7K 0.25W
D903 1N4148
D902 1N4148
D901 1N4148
R915 4.7K 0.25W
R905 4.7K 0.25W
R906 56K/2W
R916 56K/2W
R926 56K/2W
R913 2.2K 0.25W
R823 2.2K 0.25W
R919 150 0.25W
R909 150 0.25W
R929 150 0.25W
C914 0.001
C915 22 250V
L901 10uH
R939 10K 0.25W
D904 D905 D906
D917 1N4148
D931 KTC3198Y
R933 10K 0.25W
C919 47 16V
ZD901 9.1V
D933 KTC3198Y
1N4148 X3
R940 220K 0.5W
R931 150 0.5W
200V
GND
CONTROL BOARD
II D261
I D262
TV ST ON BY D263
PRE-AMP P265
PR - P276
+ VOL - P277 P278
CH P279
MENU P280
H/P-JACK P267
S-VHS P268
R-IN P269
L-IN P270
VIDEO-IN P271
C261 470 10V
L263 10UH
C281 0.1
C282 0.1
R855 33/0.5W
C253 390P
C252 390P
L255 39UH
L254 39UH
R852 33 0.5W
R269 75
R268 75
C256 0.0022
L256 470
C257 0.0022
L257 470
C259 0.0082
C258 0.0082
R272 75
IR II GND I TV ON ST BY
P251A
9V + PR - + VOL - CH MENU
P252A
R L GND
P253A
GND Y C GND RI LI GND VI
P254


D303 1N4148
D302 1N4148
D301 1N4148
D304 1N4148
D307 1N4148
D308 1N4148
D305 1N4148
D306 1N4148
FR301 0.47/0.5W
C301 470 25V
C310 0.1
R302 0.68 1/2W (FN)
R304 10 0.5W
C302 100 100V
ZD306 24V
ZD307 24V
ZD304 33V
R309 3.3K
C309 0.1 (M)
R306 82K
D301 KTB688
R308 33 3W
C305 6.8 50V (NP+F)
R310 2.2 0.5W
C306 0.1 (M)
C304 0.01 (M)
R307 220 1W
P301
V-DY
H-DY
C307 0.1 (M)
R311 2.2 0.5W
L404 8.2mH
C414 ≠250V
R406 100 1W
L403
L301 560uH
C405 0.24 /400V
C413 10 250V
D405 RG91SJ
R405 1.2K/1W
R407 15K/3W
204.5Vp-p
14.85Vp-p 50Hz
11.3Vp-p
45.8Vp-p
1.5
0.5
1.7
48.1
8.5
8.5
0.7
(200V)
(GND)
(H/T)
FR705 689 1/2W
P701B TO CPT BOARD
7.5Vp-p
ZD705 7.5V
R710 C710 5.6K 2200P 0.5W 200V
AFC
EHT
H/T
GND
45v
26V
15v
+B
200V
H/C
R707 5.6K 1W
C707 270P 500V
D703 TVR06J
FR703 0.47 1W
C708 47 100V
FR702 0.47 1W
C703 270P 500V
D701 TVR06J
FR701 0.47 0.5W
C704 22/250V
FOCUS
SCREEN
T701 FBT
1.2KVp-p
L402
BU2508DF Q402
C408 0.01 1.8KV
D401 RU4DS
D402 RU4DS
C409 0.033 400V
R709 7.5K 0.5W
R701 1K 0.5W
C701 0.047/200V (M)
229.5Vp-p
R702 9.1K
R703 3.5K
ZD708 8.2V
D707 1N4003
R704 4.7K
R705 27K 1W
R706 1.8K 0.5W
C709 47 50V
ZD704 33V
C705 2700P 1KV
D702 RG91SJ
C706 470 25V
D651 1N4148
R660 1K
D653 1N4148
R661 150
C653 220 16V
D652 KTA1268Y
R404 47 0.5W
C574 0.1
CN7
CN2
AMP. BOARD


KEY
MENU


CPT BOARD
IC901
TEA5101A
P501A
12V
BCL
GND
R
G
B
TO MAIN BOARD P501B
1.0Vp-p
4.7Vp-p
C911 0.1
C912 100 16V
L902 10uH
C901 22P
R902 560/0.25W
C902 220
R912 560/0.25W
C903 220
R922 560 0.25W
C928 51P
C908 51P
C918 51P
R939 10K 0.25W
D907 1N4148
D931
C919 47 16V
ZD901 9.1V
R933 10K 0.25W
D933 KTC3198Y
D904 D905 D906
R909 150 0.25W
R919 150 0.25W
R923 2.2K 0.25W
R913 2.2K 0.25W
R903 2.2K 0.25W
R906 56K/2W
R916 56K/2W
R926 56K/2W
R929 150 0.25W
C914 0.001
C915 22 250V
L901 10uH
R924 330 0.25W
C906 56P
R914 330 0.25W
C905 1000P
R904 330 0.25W
C904 1000P
R925 4.7K 0.25W
D903 1N4148
R915 4.7K 0.25W
D902 1N4148
R905 4.7K 0.25W
D901 1N4148
140Vp-p
R907 1K/0.5W
R917 1K/0.5W
R927 1K/0.5W
CPT A56EAK71*01
HV
P902 CPT EARTH 2
R941 2.2M/0.5W
C940 2.2 250V
D910 1N4003
P901 CPT EARTH 1
C915 0.001
FR901 2KV 4.7 2W
R940 220K 0.5W
R931 150 0.5W
P701A
200V
GND
H/T
(SCREEN)
(FOCUS)
(300V)


II D261
I D262
TV ON D263
ST BY
PRE-AMP P265
PR - P276
P277
+ VOL - P278
P279
OK P280
MENU P281
H/P-JACK P267
S-VHS P268
R-IN P269
L-IN P270
VIDEO-IN P271
C261 470 10V
L263 10UH
C281 0.1
C282 0.1
R655 33/0.5W
C253 390P
C252 390P
L255 39uH
L254 39uH
R652 33 0.5W
R269 75
R268 75
C256 0.0022
L256 470
C258 0.0082
C257 0.0022
L257 470
C259 0.0082
R272 75
FUSE T3.15H 250VAC FB01A
PB10 AC IN
SW801A MAIN S/W
IR II GND I TV ON ST BY
P251A
SW + PR - + VOL - OK MENU
P252A
R L GND
P253A
GND Y C GND RI LI GND VI
P254
P807A
PB01A
CONTROL BOARD